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TOPOGRAPHICAL BOTANY.

LONDON:

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HATTON GARDEN, E.C.

TOPOGRAPHICAL BOTANY:

BEING

LOCAL AND PERSONAL RECORDS

TOWARDS SHEWING

THE DISTRIBUTION OF BRITISH PLANTS

TRACED THROUGH THE

112 COUNTIES AND VICE-COUNTIES

OF

ENGLAND, WALES, AND SCOTLAND.

BY

HEWETT COTTRELL WATSON.

Second Edition,

CORRECTED AND ENLARGED.

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PREFACE

TO THE SECOND EDITION.

It was Mr. Watson's intention to publish a second edition of this work, and to entirely recast it and re-write the introductory and explanatory portions. This he did not live to accomplish, but he made preparation for it by keeping an interleaved copy of the first edition always at hand and entering in it regularly all the records of the occurrence of plants in additional vice-counties that came to his notice. The few additions which we have made on our own responsibility may be distinguished by having the name of the personal authority placed within parentheses. Out of the nine vice-counties, for which in 1873 there were no lists for even the commonest plants, only two now remain totally unreported upon, so that in this edition all the vice-counties are dealt with in the same manner. His notes for the remodelled, introductory, and explanatory chapters are too incomplete to be used, so that we have reprinted those of the first edition, with only a few trifling alterations that were rendered needful by changed circumstances. His British Herbarium has now been brought to Kew, his European collection presented to Owen's College, Manchester, and his small general herbarium, formed in his student days, sent to Baron Ferdinand von Mueller at Melbourne.

J. G. BAKER.
W. W. NEWBOULD.

Kew, May, 1883.

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MEMOIR OF THE AUTHOR.

Reprinted from the 'Journal of Botany' for September, 1881.

We have this month to mourn the loss of our veteran English botanical geographer, Hewitt Cottrell Watson, who died at his residence at Thames Ditton, near Kingston, on Wednesday, the 27th of July, in the seventy-eighth year of his age. Shortly before Christmas he had an accident whilst working in his garden; he stepped backward against a heap of soil and rubbish which he did not notice, and injured his foot and leg, which was lame before. Acute inflammation set in, which resulted in gangrene, and he had been confined to his bedroom ever since Christmas; and, although until the last fortnight he had been able to dress and lie on the sofa during the day, at times he suffered great pain, and his strength became gradually exhausted.

He was born in the month of May, 1804, at Firbeck, a village on the Yorkshire side of the boundary between that county and Nottinghamshire, not far from Worksop. When he was six years old the family removed to Congleton, in Cheshire. His father was Holland Watson, a country gentleman of antiquarian tastes and a magistrate for the counties both of Cheshire and Lancashire. On his mother's side he was descended from the Lords Folliott, of Ballyshannon. But, although upon both sides he could trace back his descent for many generations through ancestors of good social position, he was from a very early period of his life an uncompromising democrat, not merely passively and theoretically, but taking a lively active interest in political affairs. In Mid-Surrey, where he lived for the last

forty years of his life, he was one of the most active supporters of the liberal side in an overwhelmingly tory constituency; and one of his last acts was to undertake a canvass from house to house of his parish at the election of last year. In matters theological his views—which were much less common forty years ago than they are now—were of the advanced broad school. The society in which he moved was principally composed of men of very different opinions; and, as he delighted to speak out his mind freely, he was constantly drawn into animated arguments on social and political questions, in which, with his ready sarcasm and great command of illustrative recollections and anecdotes, no one was better qualified to hold his own against all comers.

When he was a child, Dr. Stanley, afterwards Bishop of Norwich, was the rector of the neighbouring parish of Alderley, and Mr. Watson always considered that it was from him that his love for Botany got its first encouragement. "During my school-days," he wrote, "a boyish fancy for plants and floriculture, which I had early inherited, attracted the favourable notice of Dr. Stanley, whose opportune instruction and encouragement gave a scientific direction to the taste, and rendered it the solace and relief of the child during a period of protracted bodily suffering. The direction once given was never wholly lost, though discouraged in my own home and the means of improvement withheld under mistaken views." The late Dean Stanley was one of his schoolfellows, and as he was a frail delicate child, Mr. Watson, who was ten years older, often gave him cakes and interfered for his protection.

At first he was intended for the army, but at an early age an accident from a cricket bat, which ruined in permanence the joint of one of his knees, put a stop to this. His father wished him to be a lawyer, but, although he followed up for some time the necessary studies, the idea was never congenial to his own mind. When he was about twenty-two, the bequest of a small estate in Derbyshire from a member of his mother's family

placed him in what for a man of his simple habits were independent circumstances. Upon this he removed to Edinburgh, where he stayed for several years, attending the ordinary classes of the medical curriculum, and giving special attention to Botany and Physiology. Just as he was going up for his examination his health broke down, and he was not able to go up for his degree; and, as he did not wish to practice, he never took it. After travelling about for some time he purchased, about 1835, a small house (which he afterwards enlarged) with a pleasant garden and orchard attached to it, a short distance south of the village of Thames Ditton, a stone's-throw from the point where the branch to Hampton Court leaves the main London and South Western line; and here he lived for the remainder of his life. He never married, but was fortunate in that the same housekeeper who came to him when he first settled down in a house of his own remained with him for the whole forty-six years, and nursed him through his last tedious illness.

During his Edinburgh studentship he took great interest in the lectures of Professor Graham, whom he accompanied in an excursion into Sutherlandshire. Amongst his Edinburgh contemporaries who took special interest in Botany were Dr. Balfour, Dr. Greville, Dr. Patrick Neill, Sir Walter Trevelyan, and Mr. Embleton; and in those early days when he first settled down definitely into botanical work no one did more to help and encourage him than Sir William Hooker, to whom Dr. Graham gave him an introduction, who was then in full tide of his professional career at Glasgow. He accompanied Sir William and his class upon several of their Highland excursions, and dedicated to him 'The New Botanist's Guide,' which he published in 1835.

The following is what George Combe wrote of Mr. Watson in 1846, when he was a candidate for one of the Professorships in the four Queen's Colleges, then just established in Ireland:—

"Mr. H. C. Watson became known to me nearly twenty years ago, when he studied in this city, and my acquaintance with

him has been continued to the present time. As a student he was characterised by steady application, great aptitude in acquiring knowledge, and a comprehensive power of appreciating its relations. He devoted his attention to the various branches of science usually included in the curriculum for a medical degree, and was elected by his fellow-students President of the Royal Medical Society of Edinburgh, in which office he distinguished himself by superior abilities and attainments. Judging from his writings, conversation, and correspondence, I have no hesitation in saying that his intellect is acute, exact, profound, comprehensive, and logical in no ordinary degree. He combines the powers of accurate observation, analysis, and induction, with the power of clear expression; and his manner of communicating the great and valuable store of scientific information which he possesses is at once lucid and logical. I have considered his personal friendship as a source of pleasure and advantage ever since I knew him, and shall consider any College or University fortunate that shall enrol him amongst its professors in the branch of science to which he has devoted his chief attention—Botany."

The following is Sir J. D. Hooker's testimonial of the same date:—"Mr. H. C. Watson has been personally known to me for nearly fourteen years as a zealous and excellent botanist, from whose writings and experience I have derived great instruction. His knowledge of plants is very extensive, and of European, especially British, species, complete, and acquired by actual investigation. In the departments of physiological, structural, and systematic Botany he is well grounded; and his numerous works on that of Geographical Botany are pronounced by all to be of the highest order. Mr. Watson's education, general information, and gentlemanly manners, together with his desire of, and facility in, imparting information are so obvious, that his society was greatly desired both by the professors and students in Botany in Edinburgh and Glasgow, during the many seasons when as a distinguished student of

Dr. Graham he devoted himself to the study of the geographical distribution of the British Flora."

As a writer on the geographical distribution of the British plants his books extend over more than forty years, beginning with 1832, when he was twenty-eight years old, and ending with 1874. From first to last, so far as Botany was concerned, he concentrated his attention upon this special field, and worked at it with unremitting diligence and patience. The paragraph from Herschell which he chose as a motto for the 'Cybele' indicates with characteristic clearness the spirit in which he worked:—"There is scarcely any well-informed person who, if he has but the will, has not also the power to add something essential to the general stock of knowledge, if he will only observe regularly and methodically some particular class of facts which may most excite his attention or which his situation may best enable him to study with effect." And, although as a general proposition one may reasonably demur to it as an overstatement, there can be no question that in his own particular case it was carried into effect with signal completeness. When he took up the subject in 1832, the principal notion in registering plant-stations was to guide collectors to the places where they could gather the species. When he published the last volume of 'Topographical Botany' in 1874, the distribution of all British plants from all possible points of view was so thoroughly searched out and placed on record that all that remains for his successors is to fill in a few small points of detail. His first work, 'Outlines of the Distribution of British Plants belonging to the division Vasculares,' is a small octavo of 334 pages, which was printed in Edinburgh in 1832 for private distribution. Under the title of 'Remarks on the Distribution of British Plants, chiefly in connection with Latitude, Elevation, and Climate,' what may be considered as another edition of the same work was published in London by Longmans in 1835. It was translated into German by Beilschmidt in 1837, and acknowledged by the German botanists by a diploma of membership from the

Imperial L.-C. Academy 'Naturæ Curiosorum,' of which Nees von Esenbeck was at that time the president. In the same year (1835) Mr. Watson published the first volume of the 'New Botanist's Guide,' and the second followed in 1837. This is planned upon the lines of the 'Botanist's Guide' of Turner and Dilwyn, and enumerates the special localities of the rare plants of England and Scotland, taking them county by county. In 1843 he issued the first part of a much more elaborate work on the plan of the outlines. This was only carried out through the series of plants, following the Candollean sequence of orders, as far down as *Papaveraceæ;* when, the plan being found to be too cumbrous, the work was not carried on. The first volume of his *magnum opus*, 'Cybele Britannica,' appeared in 1847, and it was followed by volume ii. in 1849, volume iii. in 1852, and volume iv. in 1859. It was his own original idea to apply the term *Cybele* to a systematic treatise on the geography of the plants of any particular country, applying it as a parallel to the term *Flora*, which has been used for a long time for a systematic description of the orders, genera, and species of any given tract. It is in the 'Cybele' that we have his plans for registering the details of plant-distribution brought out and used in their full development. These of course are so familiar to most of those who will read this notice that it seems almost a work of supererogation to explain them. To each individual species he applies, as it were, four different measuring scales, each adapted to register its distribution from a different point of view. To record its range of station he uses a series of adjectival terms, such as agrestal, paludal, glareal, sylvestral, &c. To register the horizontal distribution of the species he divides Britain into eighteen provinces, founded as far as possible on river-drainage. Yorkshire is the only county that claims a province to itself. The Peninsula province includes the three counties of Cornwall, Devonshire, and Somerset, and so on through the series. He traces the distribution of the species through these eighteen provinces by giving under each name a line of figures showing

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in which province that particular species grows. For fuller detail, to be used in local work, these provinces were afterwards subdivided into 38 subprovinces and 112 counties or vice-counties. The vertical range of the species he registers by means of two regions of climate and altitude, each divided into three zones. The Agrarian region includes that part of Britain in which it is possible, so far as climate is concerned, to cultivate the cereal grasses and potatoes. It of course includes the whole area of the island at sea-level from north to south; and the hills up to about 600 yards in the North of England, and 400 yards in the North of Scotland. All above this is mountain, heather, and rock, with a temperature like that of the low levels in Arctic latitudes. This upper region he called the Arctic region, and the zones Superarctic, Midarctic, and Inferarctic, Superagrarian, Midagrarian and Inferagrarian. The Infer-agrarian zone, for instance, includes all the low-level country south of the estuaries of the Humber and the Mersey. He estimated that average annual temperature sinks at the rate of one degree Fahrenheit for every hundred yards of elevation, and that in Britain the range of mean annual temperature is from 52° to 34°, which makes a zone to be equal on an average to three degrees of Fahrenheit's scale. Then he deals with each species from a historical point of view, classifying them into Natives, Colonists, Denizens, and Aliens, according to whether they appear to have come into the country without man's help, or to have been introduced by human agency, acting directly or indirectly. And finally he separates out the species into their types of distribution, British, English, Atlantic, Germanic, Scotch, or Highland, according to whether they preponderate in some particular part of the island or are dispersed, broadly speaking, through the whole of it. In a 'Supplement of the Cybele,' which came out in 1860, the horizontal range of the species is traced out through the thirty-eight subprovinces. In the three volumes of the 'Compendium' (1868–1870) a mass of additional information obtained after the publication of the

'Cybele' is incorporated, and the distribution of the species beyond the bounds of Britain worked out. And finally, in 'Topographical Botany,' 2 volumes, 1873–1874, the horizontal distribution of the species is traced through the 112 vice-counties. Altogether the earlier small octavos run on to about sixteen hundred pages, and the later volumes of larger size to four thousand pages; these were printed entirely at his own expense and in most cases never offered for sale at all, but given away to the public scientific libraries and those correspondents who had helped him by sending catalogues or specimens, or who were known to him as being interested in the subject.

Cautious and unspeculative as he was to an extreme degree in his theoretical conclusions in scientific matters, there was one point bearing upon the evolution theory which attracted his attention from an early date, and on which he strongly advocated the views which are now generally current long before Darwin made them popular. At a time when all our leading systematists were dealing with species as if they possessed a clearly-marked and definitely separable individuality, their uncertainty and their inequality formed one of his favourite theses. An article on the subject, which he wrote in the 'Phytologist' for 1845, will be found reprinted in 'Cybele,' vol. iv., p. 59, and a full statement of his views on this subject in 'Cybele,' vol. iv., pp. 35 to 52. At one time he was a copious contributor to the periodical journals which take Botany as a subject partially or wholly. His principal papers are to be found in Loudon's 'Magazine of Natural History,' in Sir William Hooker's 'London Journal of Botany,' in the old series of the 'Phytologist,' which dates from 1841 to 1854, and in the earlier volumes of this Journal. In the 'Phytologist' he wrote not unfrequently reviews and anonymous notices, but in his case anonymity is a very thin veil. His last word in print was the letter to Mr. Newbould on the subject of the authorship of third edition of 'English Botany,' which appeared at page 80 of this Journal for March of the present year.

He was the mainstay of the London Botanical Society, as Dr. J. E. Gray and Mr. G. E. Dennes have borne testimony in print. He did not join for some time after its commencement, but for several years he was the only good critical botanist amongst the resident London members, and all the parcels were sent down to Thames Ditton for him to supervise. When Dr. Boswell undertook the curatorship, this of course was no longer necessary. The 'London Catalogue of British Plants' is now in its seventh edition. The earlier editions were, I believe, almost entirely drawn up by Mr. Watson, whilst in the later ones he had Dr. Boswell's aid. The only excursion beyond the bounds of Britain which he ever undertook was a trip to the Azores in the summer of 1842. From their position far out in the Atlantic, about midway between Europe and America, the flora and fauna of these islands possess a peculiar interest. A surveying expedition was planned by the English Government, and the war steamer Styx detailed for the service, and notice was given to Sir Wm. Hooker that a botanist would be allowed a place on board if he would himself defray all the necessary expenses incident on his explorations. Sir William communicated with Mr. Watson, and he undertook the post on these conditions. Though much hampered in carrying out his plans by the martinet ways of the captain, and being able to visit only four out of the nine larger islands, he made a collection of 338 out of a total flora of under 500 species, about one hundred of which were not known in the group before, several of them being new to science. Through this visit he introduced into cultivation several of the more interesting endemic Azoric plants, such as *Campanuli Vidalii* and *Myosotis azorica*. When in 1870 Mr. Godman planned a complete natural history of the Archipelago, Mr. Watson wrote for him the botanical part of the work, which is not only valuable as a scientific production, but is in style eminently characteristic of its author.

During his early years, long before railway times, he made many excursions in different parts of Britain, especially for the

purpose of tracing out the vertical range of plants in the mountainous districts, a subject to which very little attention had been previously paid. A great part of what is given in the 'Cybele' under this head is the result of his own field-work. For the last thirty years of his life he travelled very little, and for many years before his death never spent a night away from his own house. For many years he sent regularly to the Botanical Society and Exchange Club a large supply of the rarer plants that came within the range of his daily excursions, selected and dried with characteristic care. His own British herbarium is a large one, and possesses a special relation to the 'Cybele,' as he laid in the specimens mainly to exhibit not so much the characters as the geographical range of the species. When 'Topographical Botany' was finished, he entertained at one time the notion of making a '*Nunc dimittis*' bonfire of his herbarium, but we all of us, from Sir Joseph Hooker and M. Alphonse DeCandolle downward, protested energetically against the carrying out of the idea, and it was finally settled that on his death it should be offered to Kew. One of the special instructions which he has given to me, as his executor, is that upon his death all his botanical manuscripts were to be burnt. At one time he gathered together and cultivated a large number of the rarer and more critical British plants, and to the end his garden was to him a great source of pleasure and interest. A biographical notice would certainly be very incomplete which did not take count of his merits as a writer of letters. His letters were always thought out carefully, and so full of matter so pithily expressed that, as one who is peculiarly well qualified to judge remarked at his funeral, a selection from them would be worth publishing on literary grounds alone.

Next to Botany, the subject that most engaged his attention was Phrenology. While studying at Edinburgh he made the acquaintance of George Combe (whose estimate of his character and capabilities I have already cited), and, through him, of his brother Andrew and Dr. Spurzheim. This is not the place to

attempt an appreciation of his work in this field, and I am not in the least qualified to deal with the subject. He always maintained that Phrenology rested on a sound scientific basis. His two phrenological works are 'Statistics of Phrenology, being an account of the progress and present state of that science in the British Isles,' published in 1836, and a controversial pamphlet in reply to an attack by Mr. Scott on Combe's 'Constitution of Man.' He edited the 'Phrenological Journal' from 1830 to 1840, and wrote various articles in it at other times. His reason for giving up the editorship, as stated in 'Men of the Time,' is so characteristic that I cannot forbear citing it.

"For some years he edited the 'Phrenological Journal,' but eventually withdrew from it, on finding that grave offence was given to more zealous advocates of that study, through his too freely pointing out the imperfect character of its evidences and definitions, and the need of more exact investigations."

In early life he devoted a good deal of attention to Entomology, and made a collection of upwards of a thousand British and eight hundred exotic species of insects. As he gradually settled down to Geographical Botany, he gave up insect collecting, and in 1834 sent the collection to Sir J. D. Hooker, who was thirteen or fourteen years his junior. It is interesting to notice that our leading botanists of the present time, Sir Joseph Hooker, Professor Babington, Dr. Boswell, and Mr. Watson, were all ardent entomologists before they finally settled down to Botany.

He was a man of great individuality and of many-sided character, and I have often been amused to note how differently different people estimated him, according to the parts of his disposition with which they had been brought in contact. From a scientific point of view, he finished the task which in early life he set himself to accomplish with admirable perspicacity and completeness. When M. Alphonse DeCandolle lately made out a list of botanical epochs, he counted the publication of the 'Cybele' as one of them. But in some ways it was not the best part of his disposition that his published writings show. With

him botanical geography is not simply a gathering together of statistics, and a working out of impersonal theoretical conclusions. His fondness for character-analysis led him so readily from plants to people that he did not always remember how it might pain a man to see his little weakness and shortcomings pilloried in print. He loved an argument like a man who can ride well loves a gallop on a spirited horse. He was accurate and clear-headed to a wonderful degree; he had a splendid memory, he was unimaginative, and never worked in a hurry; and all this made him impatient of other people's bungling and blundering. He was a pioneer, and in making a firm macadamised road he had much rubbish to shovel away. He was a man of warm temper and strong prejudices; and if he once got a notion that a man was radically careless or conceited, he did not spare to slash at him in print whenever his name turned up. One of his pet prejudices was an objection to new names for plants, and the name-givers were a favourite target for his arrows. And thus it comes that those old papers in the 'Phytologist' and the tail-paragraphs in the geographical books are often full of lively personal interest. "Ah!" he said more than once during the latter years of his life, as we talked over these things on the quiet Sunday afternoons, "they read too bitter. You don't know what it is to have a large organ of destructiveness."

But this same slashing critic was in some ways almost morbidly self-distrustful and considerate of other people's feelings. Although he wrote so much, he never seemed to like that his books should be sold; and so several of them never found their way into the hands of the booksellers at all, but he gave all the copies away, and never recouped himself one penny of the cost of paper, print, and binding. He had a scruple against ever inviting any one to pay him a visit, lest they should be bored; and sometimes when a botanist of a younger generation, who was all the while looking up to him as a great master in science, would venture to call uninvited, he would, after devoting several

hours of his time to instructing and entertaining him, thank him on parting for the visit, in a way to which it was very difficult on the spur of the moment to make any suitable response, because it was so unexpected. The encouragement and help which he gave to many young beginners in Botany is remembered by them with feelings of gratitude and affection. On this point I can myself insist with emphasis, for when I left school and became immersed in business engagements, and was surrounded by friends and relations who knew and cared nothing about Botany, I should probably have drifted away from it altogether if I had not made his acquaintance. In answering letters, in helping his correspondents to name critical plants and fill up gaps in their herbaria, in referring back to his notes and catalogues (as he was asked to do so often in his latter years), to explain the details on the faith of which he had stated some record in general terms, his patience and assiduity were unbounded, and no one but those who lived with him knew what a large proportion of his time was often occupied in this way. In helping by money to the full extent of his pecuniary means, and by judicious counsel, such of his friends and acquaintance as fell into illness and misfortune, his liberality was very great. Such traits as these can, from the nature of the case, live only in the memory of one here and another there who knew him by personal contact.

His funeral took place at the rustic church of the village with which he has been so long identified, on the afternoon of Wednesday, August 3rd. The closed shutters of the village shops testified to the respect in which he was held by neighbours, and, in addition to his relatives, the following botanists resident in London and the neighbourhood were present:—Sir J. D. Hooker, the Hon. J. L. Warren, the Rev. W. W. Newbould, Prof. Lawson, Messrs. Baker, Blow, Boulger, Britten, Dyer, H. Groves, and B. D. Jackson.

J. G. BAKER.

PS.—Copies of the excellent photograph which accompanied the foregoing Memoir when it appeared in the 'Journal of Botany' may be obtained from Messrs. Maull & Fox, Piccadilly, London.—J. G. B.

INTRODUCTORY EXPLANATIONS.

In former works by the writer of this volume a wish was repeatedly expressed, that his records shewing distribution of plants, might be carried downwards from provinces into the more copious details of *county* habitats; at the same time, indicating also the *personal testimony*, in reliance on which the distribution of the plants could be so set forth. The citation of such personal testimony would equally corroborate their provincial distribution, as previously set forth in the 'Cybele Britannica' and connected works; in which the counties have been usually treated in provincial and sub-provincial groups, not singly or further divided into vice-counties, as they are now to be taken here. For example, in here stating personal authorities for the counties of (say) Cornwall and Devon and Somerset, one or two for each county, three to six such authorities will thus be adduced for the existence of the plant in the province of the Peninsula; also one or two for the dispersed existence of it in each of the three Peninsula sub-provinces.

It is to be understood, indeed, that one chief purpose in entering upon the comital details, is that of doing somewhat tardy justice to those botanists whose labelled specimens and manuscript notes and local lists have often proved so useful to the Author, while writing the 'Cybele Britannica' and allied works. He has always felt it incumbent upon him, and due to those valued correspondents (alas, too many of them now no more) that some method should be found for at any rate partially putting on permanent record his great obligations to them. To do so, is to pass down to a succeeding generation the clearest evidence, not only on which of the botanists of the current period the progress of topographical botany has so largely

depended, but also on which of them the Author of the 'Cybele Britannica' has found reason to place a preferential reliance, on the ground of scientific competence and moral trust; the latter sometimes unfortunately wanting in cases where the former might otherwise have sufficed.

On page 178 of a 'Supplement to the Compendium of Cybele Britannica,' an intimation was reluctantly given, that the projected work on county distribution might likely be relinquished, and for reasons there mentioned. That intimation drew forth from several botanical friends their expressions of regrets at the probable failure thus to complete the contemplated series of books on the geographical and topographical botany of Britain. It has been forcibly urged that a present summary of comital distribution would certainly prove serviceable hereafter, and so far as it should reach, even although anticipated events might suddenly occur to prevent its entire completion. To this argument must be added the further inducement, that even a fragment of the projected work, although never completed, would to some extent single out and show the names of those botanists, on whose aid antecedent works have so much depended.

Another and larger section of botanical riends, particularly among those who take the highest positions of botanical authority, very strongly objected against the avowed intention to destroy the Author's herbarium of British plants, as mentioned in connexion with the probable abandonment of the work on county distribution. The two questions are connected together more closely than may be apparent on first thought; at any rate, so connected together in the writer's own ideas and plans. While a work on county distribution can be proceeded with, so long at least the herbarium must be preserved, in order to cite from it the personal testimony afforded by its numerous labels. The reasons for its early destruction, too, may be said to become lessened in proportion to the progress made in recording county habitats, because the records themselves will frequently show

the proper *present* nomenclature of specimens differently labelled in the herbarium. Moveover, in looking regularly through the collection for such a purpose, some alterations or explanations would probably be made, such as might never be made without that sort of compulsory opportunity. Still, the inclination to destroy it remains unchanged; and the reasons for so doing appear valid and cogent.*

The existing peculiarities of the collection, which would render it liable to be misunderstood or misused, if left without counter-check, may be briefly adverted to here, as bearing intimately on the object of this volume, and more particularly in its citation of *personal* testimony derived from *labelled* specimens. The herbarium has been in course of collection during many years; the time ranging from the student life of the collector to old age, say, through the dates of 1830—1880 and something over. Gradually, during those two score years and upwards, many changes have been made in the nomenclature of the plants; and those name-changes not seldom arising out of changed views on the limits and distinctions of species. Thus, the names entered in the herbarium often will require to be construed with strict reference to *dates*, and by botanists sufficiently familiar with the botanical histories of the species to which they are applied. Young botanists are always more or less deficient in this requisite; and the conceited and self-confident among them naturally misinterpret their own mental vacuities into errors on the part of the labelling herbalist.

In various instances a name formerly used by common consent, and thus designating a plant for the time being, has been subsequently transferred to quite a distinct plant; another name being then bestowed upon the plant formerly so designated. And as we cannot teach or persuade every botanist forthwith to understand and accept the change of nomenclature, there comes

* Several years after this was written, Mr. Watson presented his Herbarium to the National Collection at Kew, and after his death it was removed there, and is now kept in the same room as that of Mr. Borrer.

an intermediate or transition period; during which the name is still used in the earlier sense or application by some botanists, while it is applied in the later sense by other botanists. And thus, in a collection gradually accumulating during a series of years, and drawn together from many sources, the very same plant will appear labelled under different names, or different plants will have the same name applied to them. Such cases as these cannot rightly be called blunders in nomenclature either by sender or by receiver, although they might readily be supposed so on a cursory glance at the labels, without taking special note of their dates, with the explanations which the dates ought to suggest; usually would suggest to the experienced botanist, who had watched the gradual name-changes through a long life-time.

An example may render this more clear. In the time of Hudson and Smith, and even several years later, the name of *Oenanthe pimpinelloides* was in general use to designate the plant now better known to most of us by the name of *Oenanthe Lachenalii;* the former name being now as generally given to another plant abundantly different. Of course, specimens labelled "*pimpinelloides*" in (say) 1820—1840 would very usually be the same with specimens labelled "*Lachenalii*" in (say) 1850—1870; while, during the intermediate years 1840—1850 and even later, some botanists would assign the one name, some botanists would assign the other name, to specimens of the plant in question. The difference here, although a sort of misnomer, would not properly imply error on the part of either set of labellers; it might arise simply from one of them adhering to the nomenclature of (say) Smith, and the other of them adopting the altered nomenclature of (say) Babington.

Another mode in which the right reading of a name turns on the date of its use, arises out of the modern tendency to divide and subdivide the species accepted as such by our predecessors. When aggregate species A B C comes to be divided into three segregate species A and B and C, the old name which desig-

nated the aggregate, is too usually retained with a changed and restricted meaning to designate A only; other names being found for B and C. Equally in this second class of cases a confusion of nomenclature arises. The aggregate species A B C may chance to be represented in an herbarium by specimens of any one, or of two, or of all three segregates; placed there under one and the same name, that is, under the original name which subsequently has come to mean A only; while at a later date other specimens of B and C may have been placed with the former, and then labelled under their newer names. In appearance, at some after time, there will be great confusion among the plants and names, if examined by succeeding botanists unprepared to apply the necessary explanations by reference to past dates and name-changings.

An example may again be useful in illustration of this. At past dates, say 1830—1840, the name *Potamogeton natans* may have been written, without any real blunder or misnomer, on a label attached to a specimen of *Potamogeton polygonifolius*, or on another connected with a specimen of *Potamogeton plantagineus*. These labels were correct according to the ideas of the species formerly accepted, and even still so accepted as lately as the date of Bentham's Handbook in 1858. But at more recent dates, say between 1860—1870, and tested only by the views about these plants subsequently accepted among us, the labels might appear to be errors of names; that is, unless the former triple application of the one name *natans* were steadily kept in recollection. A herbarium formed during the years 1830—1870 may thus represent any diversities of nomenclature currently used in books during the same period, or even long antecedently, according to the descriptive books relied on by the labellers.

Besides those two sources of misnomer—or, discords connected with dates, rather than real errors of name—there have been purposely glued into the herbarium, here referred to, not a few actual errors of name on the labels with specimens; some of them very wide errors indeed. Two useful ends were sought in

thus preserving specimens sent with wrong names on their labels. First, when the locality has been actually recorded in books for the wrong plant, the contradiction between label and specimen will yield the clue to correct the mis-records; and in this way a mislabelled specimen may be found more valuable than one rightly labelled. In other cases, when several labels meet together, all alike assigning the same wrong specific or varietal name to several specimens of the same species or variety, the inference becomes unavoidable and the suspicion warranted, that a like misnomer may have occurred in other analogous instances, where now only a printed record remains to guide our judgment.

Again, let an example or two be given in illustration of such wide misnomers. In the herbarium under consideration there is a specimen of *Stellaria graminea*, sent to the Botanical Society of London labelled as *Linum catharticum;* and more strangely, the label is initialed by the then Curator and Secretary of the Society (both deceased) in order to certify the correctness of the name. Of course, this specimen with its label finds place in the herbarium simply as an instructive curiosity; but how easy for some self-conceited or malicious detractor to make a parade of his own superiority by pretending to correct an obvious blunder as if it had been shared in by the owner of the herbarium!

A rather curious form of mislabelling arises through some similarity of name in sound or in meaning. For instance, *Poterium Sanguisorba* mislabelled *Sanguisorba officinalis*, and that done by a very good and well-known botanist. So, an example of *Potentilla rupestris* until lately might be seen labelled as *Potentilla alpestris*, and localised on the Breadalbane Mountains; the specimen and locality attributed to Dr. Greville. The false locality got into print during the life-time of that accurate and very estimable botanist, who disclaimed it altogether. The specimen had come to the Botanical Society of London, through the hands of a lady equally a member of the

Edinburgh Society. Either by herself, or by the distributor of the latter society, a Welsh specimen of *Potentilla rupestris* had been substituted for a Scottish specimen of *Potentilla alpestris*. The lady alluded to certainly distributed numerous specimens of other plants which had assuredly never been gathered in the localities written on their labels, and several of these apparently had come to her hands through the Botanical Society of Edinburgh. Her labels will be ignored in this book.

The special case under allusion, be it kept in recollection, is that of an extensive British herbarium, gradually collected together during a period of forty years and upwards, and contributed to by botanists of widely unequal age and botanical experience, and whose own labels are usually glued down with the specimens. These are circumstances tending much to increase the discrepancies of nomenclature, and to endanger mistakes in consulting the herbarium. Unless a posthumous inspector of it be duly prepared to examine the specimens and labels with constant reference to the received views about species and their nomenclature, currently in use at and before its many dates, he will himself almost inevitably misread differences of name into errors of name. And further, on seeing various specimens preserved there positively under erroneous names,—and not aware that in most of such instances the misnomers were actually the chief inducement to preserve the specimens,—he may choose to attribute to ignorance on the part of the former owner of the herbarium, what would be more truly attributable to the imperfect character of his own acquaintance with that owner's motives, or with the past history of the species. A conscientious inspector might be unwittingly misled in such instances. An unscrupulous one might very willingly be so, in order to get a plausible opportunity for announcing pretended corrections, or for showing off his own detective cleverness. To suggest this latter supposition, is expressing a low estimate of the consciences of some of the botanists who have most distinguished themselves by raking up

little things out of old herbaria; but it is an estimate sadly founded on facts,—on acts done and statements printed. Certain botanists, who now seek to make themselves thus conspicuous, appear unable to understand the difference between criticism *freely* expressed and criticism *falsely* expressed; perversely substituting the latter under pretence of the former.

Unfortunately, in mounting specimens in the herbarium here specially referred to, as they were received from their collectors or donors, the importance of glueing down also the actual labels which accompained the specimens, was at first not sufficiently recognized; and thus some of the names (misnomers included) are entered there in the receiver's own handwriting while fastening down the specimens; such names not always written within inverted commas, although usually thus written to remind that the specimens came so named, right or wrong as the case might be. Altogether, a good many explanatory notes and some corrections would be required in the herbarium before its present owner could prudently leave it as a posthumous collection for other eyes and hands.

To return from a digression, though one more explanatory than irrelevant. Admitted the desirability of making some printed record of the local facts shown on the labels of specimens in the writer's herbarium; also, in his manuscript notes and in local lists furnished to him by other botanists, several of them now deceased. This being admitted,—How can a record of presently ascertained plant-distribution, carried into the details of counties, be effected within any moderate compass of text?—or, even be compelled at all, with approximate accuracy and completeness, in a short span of time? What will be the number of pages absolutely necessary for carrying out the object; economy in the money cost, and also in the time of writing and printing, both taken into account. Both must be found by the writer himself, seeing that he will not print any sale copies of a work so uncertain of reaching a completion;

and which, moreover, must unavoidably include a full share of the errors and oversights inseparable from a first attempt of its kind, and one brought out under very unfavourable conditions of age and leisure. Doubtless, all botanists of liberal thought will look chiefly to what a first such compilation may accomplish under difficult circumstances, not to what it leaves non-accomplished; but liberality of thought is far from universal.

In the 'Compendium of Cybele Britannica' the Index of names, specific and varietal, counts up to 2600; of which (say) 100 may be only second names for the same identities. But numerous varietal names of ferns and grasses, of brambles and briers, of mints and hawkweeds, and of some smaller genera, do not appear in that Index; so that we should be counting considerably under the full figure in taking only 2500 named species and varieties for the alleged flora of Britain.

Say, that we should not much exceed the mark by taking it at 3000, including all the named varieties, all the yearly increasing casual plants, and all others improperly reported as quasi-wild in Britain. The number of counties, along with the subdivision of the larger counties into vice-counties, amounts to 112; many of the commoner plants occurring in all or nearly all of these counties. Perhaps we may fairly take 50 counties and vice-counties, something under the half, as an average number for each plant. Multiply the one figure by the other, 3000 by 50, and the result would appear in the fearful number of 150,000 special items or facts, real or imaginary; each of these items consisting of the name of a county or vice-county, along with the name of at least one botanist selected as voucher or testifier to the fact.

It is difficult to conceive any method by which these double names could be *clearly* quoted, without allowing on the average a half line of text to each pair of them. Now, 75,000 lines printed at the close rate of 40 lines to a page, over and above the space needed for plant-names, would require 1875 pages of text, without reckoning in the extra pages further required for

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necessary Explanations, Index, &c. Altogether, a work so inclusive might run up to four volumes of 500 pages each; the expense of printing which would be much too great for the object sought; besides the adverse consideration, that it would never attain to a completion. The work cannot be undertaken at all, unless under some plan which will reduce this terrible length into the compass of a single volume at first, with a possible second for plants discarded from the first volume. Such was the division of the plants into two categories, in lately writing the three successive Parts of the 'Compendium of Cybele Britannica;' so that the two earlier Parts would have formed a completed work of themselves, even although not followed by a Third Part, nor this again by a 'Supplement.'

In yet more lately treating of plant-distribution by secondary provinces, or sub-provincial groups of counties, in that 'Supplement' to the last-named work, a closer condensation was effected in a manner which cannot here be resorted to for the counties. The needed condensation was there effected by omitting references to personal or individual authorities, with some few occasional exceptions,—by resorting to the nos. instead of the names of the sub-provinces,—and by so placing the little word "to" as to make it represent any continuous series of nos. between the two extremes of 1 and 38. But in this present work the object specially in view, is that of recording the *names* of personal authorities or witnesses; connected also with the *names* of counties and vice-counties, lest the longer series of 112 nos., instead of names for the latter, should be found to over-tax and confuse memory in their practical application. A reduced selection of the plants to be treated, and a reduced selection of the counties to be nominally enumerated for them, offer the only available modes for bringing the work within the narrowed bulk of a single volume, to which any second is unlikely to be added.

A selection of the plants can be made by limiting them to the more generally known and accepted species, whether

aggregates or segregates; excluding for the present most of the varieties, along with the aliens, casuals, errors, &c. A selection of the counties may be made by limiting the enumeration of their names to those of counties from which the plant has been reported on fair authority, as being presumably indigenous there, denizens and colonists here ranking with truer natives. Other counties can be sufficiently shown by their nos. only; that is, those supposed to have been erroneously reported for the plant, and those into which it is believed to have been introduced by human agency alone. Those in support of which the recorded authority appears to be insufficient for scientific reliance will be left out or grouped with the former. Any botanist who has glanced at the array of enclosed nos. in the recently printed 'Supplement' above mentioned, will have seen how numerous a portion of the recorded habitats there came under one or other of the two categories,—the non-indigenous ( ) or the supposed errors [ ].

These preliminary observations on the end sought, and the difficulties in attaining it, will facilitate an understanding of the methods resorted to for that purpose;—here resorted to, not because they are the best possible, but because they appear to be practically best under the circumstances. Except in the cases of the commoner plants, all the counties will be enumerated by *name and no.* under each species treated; that is, all which have been found recorded on authority sufficiently reliable, and without being too exacting in the test; a change to *nos. only* being made for sake of brevity under the conditions mentioned above.

It is to be distinctly understood, however, that the enumeration of counties does not undertake or profess to be absolutely exhaustive of all records of the kind. On the contrary, it is to be understood as including only those which came under the compiler's consideration while writing the 'Cybele Britannica' and its Compendium; with the further addition of others

directly brought to his notice on good personal authority at any later date.

The name of a personal authority or witness for the county is added from one of the three following sources. *First*, the labels of specimens (sp.) still preserved in the Compiler's herbarium, or which have passed through his hands for inspection. In the former of these two cases the specimen may have reached the herbarium through intermediate persons, the donor and collector not being identical; and as the space at command cannot admit two or three names, sometimes it may be the name of donor, sometimes that of collector, which is cited; usually the latter. *Second*, other manuscript (ms.) notes of localities communicated by correspondents, on whose good faith and prevailing accuracy due reliance can be placed. These notes have frequently been sent in the form of remarks in letters, and some of them afterwards withrawn or corrected; and it is possible that, in now reverting to them for use here, the first remark may turn up again apart from the forgotten correction. *Third*, local catalogues (cat.) of plants drawn up by botanists resident in or visiting the places to which the catalogues are made to relate. These lists have usually been made out by marking in a copy of the 'London Catalogue of British Plants' the names of all those actually seen by the marker within the area under consideration; separate marks being used to distinguish between the indigenous and introduced plants.

No fixed rule can be laid down as to precedence in the citations; perhaps most usually a preference will be given to the "sp." But "cat." may often come more readily to hand, and thus be cited instead, without always implying that no specimen has been seen from the county. The printer is instructed to leave out the abbreviations (sp. ms. cat.) if want of space in the half line may render such an omission necessary. Only a single selected authority can be cited within the space allotted; although in many cases there may

be several manuscript authorities in addition to others already in print elsewhere.

Further, the sign of certainty (!) will follow the names of counties in which the plant has been seen by the Compiler himself, and some note of the fact kept as an aid to memory. This abbreviation will double the testifiers to several of the counties, and without any real increase of text. It must often be omitted, however, through failure of memory or absence of memorandum. The occasional exchange to *italic* letters will indicate a decided suspicion that the plant is non-indigenous in the county so distinguished, neither native nor sufficiently established and constant to be properly taken into the category of denizen or colonist. The obelisk sign (†) affixed after the name of a botanist, will signify that *he* mentions or marks the plant as being likely an introduction; but individual botanists apply the mark so unequally or dissimilarly, one compared with another, that a free leave of choice must be taken here in the addition or omission of it; the more so, because the alternative signs (* †) are reduced to the single one (†). The query (?) will indicate more or less of doubt or uncertainty.

Printed books will be referred to so seldom and exceptionally that it may be taken for a fixed rule (not quite invariably adhered to) that only *original personal* authorities will be cited, and these shewn by manuscripts in the compiler's own possession; and the counties which can be so vouched will be seen to be numerous. Those names of counties which are unconnected with the name of some botanist, or by the sign of certainty (!) above explained, must be understood to rest solely on some such authority announced elsewhere. Space and time sufficing, some explanations concerning those authorities may possibly be appended after the detail of counties. Published works of course are open to any else, equally as to the compiler of this book; and those who require their personal authorities can consult the local Floras and other

publications for them, equally as done by the writer of this book. Usually, the personal witnesses, as cited by surnames herein, will be amply sufficient to shew and prove the true area of distribution apart from undue extension through errors, or through reprehensible efforts to represent artificial habitats as natural or indigenous ones.

References to books are advisedly omitted. The quarter line of space, available after the name of county, will commonly suffice for the citation of a single surname; although the same short space would prove insufficient for surnames accompanied by book references *in extenso*;—for instance, such references as these:

Hiern, in Jour. Bot. vol. iii. p. 328.
Hemsley, in Jour. Bot. vol. vii. p. 263.
Forster, in Jour. Bot. 1867, p. 76 [73].
Wintle, in Jour. Bot. 1867, p. 279.
Gibson, in Jour. Bot. vol. vi. p. 319.

Unfortunately, a foolish declaration has been set forth in the Journal of Botany (partly under the editorial control of Mr. J. G. Baker) that citations of books more abbreviated than above shewn are insufficient for botanical service. Thus, in the present case, where only a quarter line or less is available, the guilt of "insufficiently" quoting must be avoided by the counter rule of not quoting journals or other books at all; resting content with those surnames only, which are unconnected with volumes and pages.

If this present work should attain an enduring completeness, some botanists of the future will find out more practically than gratefully, through these advised omissions, that abbreviated citations of authorities might have usefully subserved one purpose,—say, that of simply showing an authority,—although not so full or lengthened as to subserve also every other possible purpose for which quotations might be made available, if made under the condition of unlimited space for them to be printed *in extenso*. The narrow-mindedness and the short-sightedness

of the Journal's rule should be disclaimed by Mr. Baker himself; it being a rule well adapted only to those writers who seek to expand their own *minimum* additions to science into a *maximum* of printed text; while it becomes ridiculously inapplicable to those who seek to compress the information they include on the opposite principle, on that of making up a *multum in parvo*.

This book is not the Flora of one little county, which has to be inflated to a volume of four or five hundred pages, on the rake-up and repeat-over-again principle. On the contrary, its leading purpose is to adduce and arrange original personal testimony in a very condensed form; repetitions from books being resorted to only where such more direct testimony may fail. If the county so certified afresh had been previously recorded on other authority, then the adduced testimony becomes so far an added evidence for the correctness of the earlier record; with the further advantage of shewing the persistence of the plant in the same habitat or county. If not previously on printed record, then the habitat so testified is of course an addition to accumulated knowledge on the subject. As to mere priority in seeing a plant in a place, the mind which can find importance in a matter so small, must itself be a very small mind indeed.

It has happened in various instances, that botanists have kindly sent to the compiler local lists or manuscript notes, and afterwards have themselves given printed currency to the same. In several of these cases the lists and manuscripts will still be used, and be quoted here as if original; although in some sense they have ceased to be so, and might now be left unquoted. Thus, Professor Lawson gave the compiler a list of plants observed in the Isle of Skye by himself and the Rev. H. E. Fox, and afterwards printed the same for general use. In like manner, Professor Balfour long ago supplied lists of plants observed by himself in Isla and Cantire, which were also subsequently printed in a periodical. And the same is the case

with a list of plants observed by Professor C. C. Babington in Pembrokeshire. In such cases as these, it would assuredly be most unwise to forego the advantage of citing good personal authorities for the county habitats, and on no better reason than the mere fact that they had already appeared in some journal or other book; the addition of which to their names, with volume and page also specially shewn, would require a full half line or upwards, instead of the quarter line or less here actually available. The individual personal authority being the one essential matter, those compiled lists which have been founded on the joint testimony of several different botanists, whether printed or still in manuscript alone, obviously cannot be quoted. Unfortunately, the compiler has grounds for suspecting that the distinction here specified has not been always strictly adhered to by the makers of the local lists themselves; who appear in some very few of the lists to have entered plants on hearsay testimony, or even on supposition only, and yet entered them as if certainly seen. He has absolutely rejected three marked catalogues on their internal evidences of this deception or carelessness; and of course the markers were deeply offended.

If a botanical correspondent should deem his name erroneously quoted for any county and plant, it is requested that he will at once point out and correct the error. This should be done, whether the error may have arisen through a mistake by the compiler, or through an inadvertence in the original note or label or list of plants sent to him. Failing any indication to the contrary, the compiler must himself be held responsible for the nomenclature (sp.) of the plants; the more so, because the names on labels have been altered occasionally by his own hand; so that a collector may find himself here credited for a species different from the one supposed to have been sent. Such cases will be the exceptional few; although the writer's own experience and opportunities have told him that not any botanist, who labels much, will entirely avoid occasional mistakes and inadvertences in writing the names of plants.

Doubtless local botanists will readily detect errors and oversights, if they will take those counties with the botany of which they are most familiar, and regularly note whether such counties are named or omitted under each plant known to themselves as being found there. They will thus not only detect what may be wrong, but will also see what is still wanting formal record towards completing the county list. It is utterly impossible for one single botanist to keep up to all that becomes known about the plants and places of each and every county. No Flora of a single county has ever been printed, to which a list of "Additions and Corrections" could not have been made out; and that perhaps even before the Flora was fairly through the printing office. A compiler who takes cognizance of 112 counties and vice-counties should be allowed the same chances for errors and oversights multiplied a hundred-fold,—nay, much more, since one botanist may know some one county very well, while it is impossible that one single botanist can know a hundred counties equally well.

Notwithstanding this obvious truth, however, the writer's intercourse with other botanists has taught him, that there are those among them who conceive it a great feat achieved, when they have drawn up an approximately complete list of the plants to be found in some single county or even in an area much less than that of an average county. Yet these same botanists are surprised, or affect to be surprised, on finding that another compilation, which includes a hundred such spaces or upwards, should appear to be less approximately complete than their own small achievements. They would fail to understand, for instance, that in such a compilation as this present one, concerning itself with *all* the counties, a hundred oversights or omissions would be only the equivalent to a single such defect in one of their own county lists; the difference between the respective areas being duly allowed for. It may be found an easy task to bring up the Flora of a single small county to the actual date of printing the book; especially so, if two or three

compilers should be busy at the same time on the same book. And yet it is preposterous on that account to expect of a single writer, that he should bring up the combined Floras of a hundred counties equally to a like late date.

Take an example in illustration of this. The Flora of Middlesex, almost the smallest of English counties, has five closely printed pages of "Additions and Corrections" at the end of it: all those petty details, it may be supposed, first becoming known to the two industrious compilers of that work while the book was actually printing, or they would have been made on their proper pages, not entered at the end as A and C. The total area of Britain is not much below three hundred times the area of that one small county;—less than none at all below, if the spaces covered by streets and gardens be allowed for. At a corrresponding ratio of three hundred to one, how many pages of "Additions and Corrections" ought to be allowed to the manuscript notes and other data collected for this present compilation? Imagine five closely printed pages of "Additions and Corrections" multiplied three hundred times! Say, that the five pages include 100 additions or corrections. Multiply these 300 times over. Result:—30,000 additions and corrections, a number not likely to be discovered while this book is printing.

With regard to the *commoner plants*, such as *Bellis*, *Calluna*, *Prunella*, *Corylus*, and numerous others, which almost certainly occur in every county, and have been actually reported from ninety or a hundred of them. It cannot be held advisable to enumerate the long series of county names and authorities for these generally found plants; thus adding much to the bulk of this work, and exceedingly little to its usefulness. And yet it appears undesirable to leave out of notice entirely any of those generally distributed plants; the more so because, so soon as this course should begin to be acted upon, a real practical difficulty would spring up in the question, how or where to trace the separating lines between *common* and *not common*. Many of the plants which might well be called "common"

in South Britain become decidedly rare in North Britain; some of them even partially rare in Mid Britain; and it is for these plants that the practical difficulty most comes in the way, in any endeavour to reduce the bulk of the book.

An alternative presents itself in treating the common plants, such as really do occur plentifully in most or all of the counties. The required space can be lessened by shewing the counties for which the compiler's notes do *not* supply any direct personal authority, instead of the contrary course. When a plant is already known to occur (say) in 90 or 100 counties, it will be a shorter plan to enumerate negatively the other 19 or 20 counties, instead of the larger number affirmatively. Each "common" plant thus treated will save a full page of printed text.

For two of the vice-counties, 74 Wigton and 78 Peebles, we have still no records for the commonest species. For some other counties the lists of ascertained "common" plants are very incomplete, although not wholly blanks; in example, Cardigan, Flint, West Lancashire, Stirling, etc.

To revert to the marked catalogues and other manuscripts. A list of the exact area to which they severally relate, with any connected local or personal explanations, must be postponed to the end of the book. At present it may suffice to observe, that the areas of all of them are of course *within* the county or vice-county for which they will be cited. Some of them relate to the whole county or vice-county, while others are restricted to a radius of 3 to 10 miles from some town or other fixed centre. All the catalogues (cat.) are referred to in connexion with the names of the botanists by whom they were marked or made out. Unfortunately, some of the earlier catalogues cannot be used here, because they relate to areas which take in whole counties now treated as two separated vice-counties; or, because they take a border town as a centre, and thus relate to portions of two adjoining counties or vice-counties not discriminated in

them. This is a difficulty which arises also in consulting some printed Floras, such as those of Tonbridge and Yarmouth, in which the advisability of arranging the localities by their counties has been overlooked.

For sake of brevity the surnames only of botanists are printed, very seldom with any prefix of title or designation. The quarter line of available space would necessitate a resort to this abbreviation in many instances; hence it is made the rule for all. An occasional inconvenience attends the practice, in cases of the same surname being common to two or more botanists. Generally, when such is the case, the locality will indicate the true personal identity.

The Nos. prefixed to the names of counties, or substituted for them in the case of plants held introduced or to be excluded, are the same as shown on the map. The lines of separation, which are taken to divide the larger counties into two or (seldom) more vice-counties, cannot be sufficiently made out on the small map; and it may be useful to repeat their description from the fourth volume of the original 'Cybele Britannica,' where it was adapted to the maps of England and Scotland, published under the auspices of the 'Society for the Diffusion of Useful Knowledge.'

"In thus subdividing the counties any natural peculiarities were taken, or even well-marked lines traceable on maps, or findable on the actual ground; such as water-sheds, roads, canals, rivers, &c.—*West* and *East Cornwall* are separated by a line traced along the high road from Truro, through St. Columb, to the inland extremity of Padstow Creek; at the two ends of this line, the salt-water completing the division.—*South* and *North Devon* are separated by an imaginary line, adapted to the water-shed; commencing at the Tamar, about midway between Tavistock and Launceston; passing over the ridge of Dartmoor, and joining the western canal at Tiverton.—*South* and *North Somerset* are separated by a line along the river Parret, from

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Bridgewater to Ilchester; and thence curving round to the northern extremity of Dorset.—*North* and *South Wilts* are separated by a line drawn along the Kennet and Avon canal.—*South* and *North Hants* are separated by a line traced along the high roads from Winchester westward to Stockbridge, eastward to Petersfield; and continued thence to the borders of Wilts and Sussex.—*West* and *East Sussex* are separated by a line traced along the high road from Brighton to Cuckfield; thence by Crawley to the border of Surrey.—*East* and *West Kent* are separated by the river Medway and its tributaries nearly up to Staplehurst; and thence by the high road through Cranbrooke to the border of Sussex, near Hawkhurst.—*South* and *North Essex* are separated by the high road from Waltham and Epping to Chelmsford, and thence by the Blackwater river to the coast.—*East* and *West Suffolk*, and *East* and *West Norfolk*, are separated by the mathematical line of one east longitude, not a good division because traceable on maps only, unseen on the ground.—*East* and *West Gloucester* are separated by the Thames and Severn Canal, and by the river Severn from the point of junction up to Tewksbury.—*South* and *North Lincoln* are separated by the Witham river, from Boston to Lincoln; thence by the Foss Dyke to the border of Nottingham.—*South* and *West Lancaster* are separated by the river Ribble. That more northerly portion of Lancashire which is situate to the north-west of the Bay of Morecambe, is taken with the Lake Province, and treated as a part of Westmoreland.

"The great county of York is first divided into the two sub-provinces of East and West Humber, by the rivers Humber, Ouse, and Wiske. *South-east* and *North-east Yorkshire* are then separated by the political line which divides the East Riding from the rest of the county; that portion of the East Riding situate westward of the Ouse being taken as part of the Mid-west vice-county. *South-west* and *Mid-west Yorkshire* are separated by the Leeds and Liverpool Canal, and by the river Aire below Leeds. *Mid-west* and *North-west* are separated by

the political boundary between the North and West Ridings; that boundary being deflected westward so as to pass over Whernside to the south-eastern angle of Westmoreland.—*Cheviotland* is cut off from the more southern part of Northumberland by the river Coquet, and a line continued to Carter Fell from the Linn Bridge. That northerly part of Durham which is situate between Holy Island and the Tweed, is deemed a portion of Cheviotland; having only a nominal connection with Durham proper, not a geographical one.

"In Scotland, the large county of Perth is divided into three vice-counties. *East Perth* is cut off from *Mid Perth* by the rivers Garry and Tay. *Mid Perth* is separated from *West Perth* by a line traced over the high ground or water-shed so as to divide the tributaries of the Tay from those of the Forth; the little county of Clackmannan and a small detached portion of Stirling being taken as parts of West Perth.—*South* and *North Aberdeen* are separated by lines traced along the water-sheds eastward and westward of Inverury.—The great county of Inverness is first divided by the line of water-shed between the eastern and western sides of Scotland, continued along Loch Erricht to the border of Perthshire. The easterly portion, with the addition of Nairnshire forms the large vice-county of *Easterness*. That portion of Inverness which cuts *Elginshire* into two disjoined parts, is deemed to be a portion of this latter county. —The remainder of Inverness, the waters of which drain to the western coast, along with the detached portion of Argyle which is situate to the north-west of Loch Linhe, makes up the vice-county of *Westerness*.—*Main-Argyle* and *Cantire* are separated by the Crinan Canal. The *Clyde Isles* include Bute and Arran, with Cumbrae and other islets adjacent, between Cantire and Ayr. The Ebudes are islands belonging by political geography to Argyle and Inverness. Here it is convenient to take them as a group apart, subdivisible into three vice-counties. *South Ebudes* include Isla and Jura, with adjacent islets.—*Mid Ebudes* consist of Mull and Coll, with their adjacent islets.—*North*

Ebudes include Syke and Rum, also with their adjacent islets.—*East* and *West Ross* are separated by a line traced along the water-shed between the eastern and western coasts; East Ross being considered to include those detached portions of Nairn, situate to the westward of the Murray Firth and Loch Beauly. The fragmentary county of Cromarty may belong to East or West Ross, according to the geographical position of its detached fragments.—*East* and *West Sutherland* are also separated by the line of water-shed; this being so traced as to divide the south-eastern portion of the county from the western and northern."

The three groups of North Isles, namely, Hebrides, Orkneys, Shetlands, are at once treated as so many sub-provinces and so many counties; and they are numbered accordingly. The other counties of Britain being undivided into vice-counties, their boundaries do not require special explanation here.

LIST OF PROVINCES, SUB-PROVINCES, AND VICE-COUNTIES.

I Peninsula province.
- i South Peninsula subprovince.
  - 1 West Cornwall.
  - 2 East Cornwall.
- ii Mid Peninsula province.
  - 3 South Devon.
  - 4 North Devon.
- iii North Peninsula subprovince.
  - 5 South Somerset.
  - 6 North Somerset.

II Channel province.
- iv West Channel subprovince.
  - 7 North Wilts.
  - 8 South Wilts.
  - 9 Dorset.
- v Mid Channel subprovince.
  - 10 Isle of Wight
  - 11 South Hants.
  - 12 North Hants.
- vi East Channel subprovince.
  - 13 West Sussex.
  - 14 East Sussex.

III Thames province.
- vii South Thames subprovince.
  - 15 East Kent.
  - 16 West Kent.
  - 17 Surrey.
- viii North Thames subprovince.
  - 18 South Essex.
  - 19 North Essex.
  - 20 Herts.
  - 21 Middlesex.
- ix West Thames subprovince.
  - 22 Berks.
  - 23 Oxford.
  - 24 Bucks.

IV Ouse province.
- x South Ouse subprovince.
  - 25 East Suffolk.
  - 26 West Suffolk.
- xi North Ouse subprovince
  - 27 East Norfolk.
  - 28 West Norfolk.
- xii West Ouse subprovince.
  - 29 Cambridge.
  - 30 Bedford.
  - 31 Hunts.
  - 32 Northampton.

V Severn province.
- xiii South Severn subprovince.
  - 33 East Gloucester.
  - 34 West Gloucester.
  - 35 Monmouth.
- xiv Mid Severn subprovince.
  - 36 Hereford.
  - 37 Worcester.
  - 38 Warwick.
- xv North Severn subprovince.
  - 39 Stafford.
  - 40 Salop.

VI South Wales province.
- xvi South-east Wales subprov.
  - 41 Glamorgan.
  - 42 Brecon.
  - 43 Radnor.
- xvii South-west Wales subprov.
  - 44 Carmarthen.
  - 45 Pembroke.
  - 46 Cardigan.

VII North Wales province.
- xviii North Wales subprovince.
  - 47 Montgomery.
  - 48 Merioneth.
  - 49 Carnarvon.
  - 50 Denbigh.
  - 51 Flint.
  - 52 Anglesea.

VIII Trent province.
- xix East Trent subprovince.

53 South Lincoln.
54 North Lincoln.
xx West Trent subprovince.
55 Leicester with Rutland.
56 Nottingham.
57 Derby.

IX Mersey province.
xxi Mersey subprovince.
58 Chester.
59 South Lancaster.
60 West Lancaster.

X Humber province.
xxii East Humber subprovince.
61 South-east Yorkshire.
62 North-east Yorkshire.
xxiii West Humber subprovince.
63 South-west Yorkshire.
64 Mid-west Yorkshire.
65 North-west Yorkshire.

XI Tyne province.
xxiv Tyne subprovince.
66 Durham.
67 Northumberland (south).
68 Cheviotland, or Northumberland north.

XII Lakes province.
xxv Lakes subprovince.
69 Westmoreland with North Lancashire.
70 Cumberland.
71 Isle of Man.

XIII West Lowlands province.
xxvi South-west Lowlands subprov.
72 Dumfries.
73 Kirkcudbright.
74 Wigton.
xxvii North-west Lowlands subprov.
75 Ayr.
76 Renfrew.
77 Lanark.

XIV East Lowlands province.
xxviii East Lowlands subprovince.
78 Peebles.
79 Selkirk.
80 Roxburgh.
81 Berwick.
82 Haddington.
83 Edinburgh.
84 Linlithgow.

XV East Highlands province.
xxix S.-east Highlands subprov.
85 Fife with Kinross.
86 Stirling.
87 West Perth with Clackmannan.
88 Mid Perth.
89 East Perth.
xxx Mid-east Highlands subprov.
90 Forfar.
91 Kincardine.
92 South Aberdeen.
93 North Aberdeen.
xxxi N.-east Highlands subprov.
94 Banff.
95 Elgin.
96 Easterness. (E. Invern.)

XVI West Highlands province.
xxxii Inner W. Highlands subprov.
97 Westerness. (W. Invern.)
98 Argyle.
99 Dunbarton.
100 Clyde-isles.
101 Cantire.
xxxiii Outer W. Highlands subprov.
102 South Ebudes.
103 Mid Ebudes.
104 North Ebudes.

XVII North Highlands province.
xxxiv Lower N. Highlands subprov.
105 West Ross.
106 East Ross.
xxxv Upper N. Highlands subprov.
107 East Sutherland.
108 West Sutherland.
109 Caithness.

XVIII North-isles province.
xxxvi North-west isles subprov.
110 Hebrides.
xxxvii Lower North-isles subprov.
111 Orkney.
xxxviii Upper North-isles subprov.
112 Shetland.

COUNTY DISTRIBUTION.

1 Clematis Vitalba.

1 Cornwall west. Cunnack cat.
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north. Maw cat.
5 Som. south. Southby ms.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 I. Wight ! More cat.
11 Hants south ! Towns cat.
12 north ! Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Eastb. flo.
15 Kent east. G. E. Smith cat.
16 west ! Sansom sp.
17 Surrey ! Eastmond sp.
18 Essex south. Varenne ms.
19 north. Hall sp.
20 Herts. Isaac Brown sp.
21 Middlesex. Kingsley sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Bell sp.
27 Norfolk east. Bell sp.
28 west. Trimmer.
29 Cambridge. Trevelyan sp.
30 Bedford. Leefe ms.
31 Hunts. Newbould cat.
32 Northton ! Chl. Bab. ms.
33 Gloster east Buckman sp.
34 west ! Rogers sp.
35 Monmouth. Gibson ms.
36 Hereford. Shawe sp.
37 Worcester. E. Lees cat.
38 Warwick. Kirk ms.
39 Stafford. Garner flo.
40 Salop. Darby ms.
41 Glamorgan. Dyke sp.
44 Carmarthen ? "One plant."
45 Pembroke. C. C. Bab. cat.
46 Cardigan. Jones cat.
50 Denbigh. Bailey rec.
(49 55 56 58 59 62 63 64 65 66 67 69 77 82 83 85 87; likely introduced into all these counties; and in some of them recorded deceptively as if native).

2 Thalictrum alpinum.

49 Carnarvon ! Brent sp.
65 York n. west.
66 Durham. Winch ms.
69 Westmoreland. J. Woods.
70 Cumberland !
72 Dumfries. Lightf.
86 Stirling. Hooker sp.
87 Perth west. F. M. Webb rec.
88 Perth mid ! Balfour.
89 east !
90 Forfar ! Gardiner.
92 Aber. south ! Dickie sp.
94 Banff. Gordon, Roy, mss.
96 Easterness ! Gordon ms.
97 Westerness ! Grieve.
98 Argyle ! Church. Bab. ms.
99 Dunbarton. Gourlie sp.
00 Clyde-isles. Hennedy cat.
03 Ebudes mid. Ross rec.
04 n. Lawson cat.
05 Ross west. Graham.
06 east. Stables sp.

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08 Sutherland west. Graham.
10 Hebrides. Bab. & Balfour.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
[50 57 64].

3 Thalictrum minus (including *majus* and *saxatile*). Aggregate.

1 Cornwall w. Miss Warren sp.
3 Devon south. Tate sp.
6 Somer. north. Flowers sp.
19 Essex north.
20 Herts. Miss Barnard sp.
26 Suffolk west. Skepper.
27 Norfolk east. Clowes sp.
28 west. Trimmer.
29 Cambridge. Babington cat.
30 Bedford. R. H. Webb herb.
34 Gloster west. Thwaites cat.
37 Worcester.
40 Salop. Syme herb.
41 Glamorgan. Dillwyn.
42 Brecon. Dillwyn.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
48 Merioneth. Gibson ms.
49 Carnarvon! Butler sp.
50 Denbigh. J.E.Bowman cat.
51 Flint. Whittaker sp.
52 Anglesea.
54 Lincoln north. Fowler rec.
57 Derby! Howitt cat.
58 Chester. J.E.Bowman sp.
59 Lanc. south. Hall sp.
60 west
62 York n. east. Baker sp.
63 s. west.
64 m. west. Baker sp.
65 n. west. F.A.Lees rec.
66 Durham. R. B. Bowman sp.
67 Northumberland. Storey sp.
68 Cheviot. Richardson sp.
69 Westmoreland! Clowes sp.
70 Cumberland! Oliver sp.
72 Dumfries. Gray cat. co.
75 Ayr. Duncan cat.
77 Lanark. Horn rec.
79 Selkirk. Farquharson.
80 Roxburgh.
81 Berwick. Syme herb.
82 Haddington. Syme sp.
83 Edinburgh! Balfour cat.
84 Linlithgow
85 Fife. Brand sp. Syme sp.
87 Perth west. T. Drummond.
88 mid! Syme sp.
90 Forfar. Croall sp.
91 Kincardine. Croall sp.
92 Aber. south. Syme sp.
93 north.
94 Banff.
98 Argyle. Ross rec.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Ebs. south. Stables sp.
03 mid. Ross cat.
06 Ross east. "J. B." sp.
08 Sutherland west!
09 Caith.! Brown Campst. cat.
10 Hebrides. Babington ms.
11 Orkney. Miss Boswell ms.
[8 25 "flavum," by error].

3*Thalictrum maritimum. (*dunense*, Dum.) Segregate.

28 Norfolk west. Trimmer.
44 Carmarthen. Jones rec.
54 Lincoln north. Fowler rec.
58 Chester. (Binton sp.)
62 York n. east. Baker rec.
66 Durham.
67 Northumberland.
68 Cheviot.
69 Westmorel. Miss Hodgson.
77 Lanark. Horn rec.
82 Haddington. Syme herb.
83 Edinburgh. Syme herb.
85 Fife. Syme herb.
90 Forfar. Syme herb.

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91 Kincardine. Syme herb.
92 Aber. south. Syme herb.
93 north. (Nicolson)
98 Argyle. Ross rec.
06 Ross east.
08 Sutherland west.
02 Caithness. Nicolson cat.
11 Orkney. Syme.
N.B. Distinctive distribution imperfectly on record.

3*Thalictrum montanum. Segregate.

6 Somer. north. Syme herb.
20 Herts. Crespigny rec.
26 Suffolk west. Ar. Bennett.
49 Carnar. Butler fide Syme.
51 Flint. Whittaker fide Syme.
57 Derby. Syme herb.
64 York mid-w. F. A. Lees cat.
69 Westmoreland. Ley.
73 Kircud. G.N.Lloyd "*majus*."
85 Fife. Syme herb.
98 Argyle. Ross.
N.B. This *montanum* and the preceding *maritimum* may be regarded as being segregates of *minus* in a limited sense, exclusive of *flexuosum*, *saxatile*, *majus*, and *Kochii;* but doubtless the first of these names has been so applied of late by some botanists, as to include plants which would be assigned to *montanum* by other botanists. Both will be found to occur in several more counties than are yet on record for them, clearly apart from *minus*, &c.

3*Thalictrum majus (including *flexuosum*, *Kochii*, and *saxatile*). Segregate.

1 Cornwall west, Syme herb.
3 Devon south. Tate.
6 Som. north. Flower, Baker.
29 Cambridge. Babington.
48 Merioneth. Bailey rec.
49 Carnarvon. Butler.
51 Flint. Whittaker.
64 York mid-w. Cheesman rec.
65 n.w. Baker. Lees rec.
66 Durham. Baker.
68 Cheviotland.
69 Westmoreland. Syme sp.
70 Cumberland. Baker cat.
77 Lanark. Horn.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme herb.
85 Fife. Syme sp.
87 Perth west. Drummond.
88 mid. (Woods sp.)
89 east. (Drummond sp.)
02 Ebudes south.
03 mid.
[8 24 doubtless misnomers; the name of *majus* having been formerly used for *flavum*].

4 Thalictrum flavum.

1 *Corn west.* Cunnack ms.†
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Extinct?
11 Hants south! Notcutt cat.
12 north! Townsend cat.
13 Sussex west. Hemsley.
14 east. Roper ms.
15 Kent east. G. E. Smith cat.
16 west. Beeby sp.
17 Surrey!
18 Essex south. Sansom sp.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks. Britten cat.

23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northampton. Druce rec.
33 Gloster east.
34 west. Thwaites sp.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Lloyd sp.
41 Glamorgan. Dillwyn ms.
44 Carmarthen? "Once seen."
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Rarely.
53 Linc. s. Fowler & Lees rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south. Tudor ms.
60 west. Hiern ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Lees cat.
64 m. west. Leefe sp.
65 n. west.
66 Durham. Miss Hancock sp.
67 Northumberland.
69 Westmoreland. Oliver sp.
70 Cumbrlnd. (G.E. Smith sp.)
77 Lanark. Hooker sp.
81 Berwick.
83 Edinburgh.
85 Fife. Dewar sp.
80 Argyle.
90 Clyde-isles. Kennedy cat.
[3 Devon south: but not found recently. 109 Caithness a misnomer of *T. maritimum*.]

5 Anemone Pulsatilla.

19 Essex n. G. S. Gibson sp.
20 Herts. Fordham sp.
22 Berks. Miss Bell sp.
23 Oxford.
26 Suffolk west.
28 Norfolk west.
29 Cambridge. Leefe sp.
30 Bedford. E. Foster sp.
31 Hunts. Berkeley ms.
32 Northton. Berkeley ms.
33 Gloster east. Buckman sp.
34 w. Rev. H.C. Reader.
53 Linc. south. Bloxam sp.
54 Lincoln north. Fowler rec.
55 Rutland. Berkeley ms.
63 York s. west. F.A. Lees cat.
64 m. west.
65 n. west.
[37 E. C. rep. 1863.]

6 Anemone nemorosa.

Counties all, except 74 97 102 107 109 to 112.

9 Adonis autumnalis.

8 Wilts south. Miss Bell sp.
9 Dorset. Twining sp.
10 Wight. More sp.
12 Hants north. Macreight sp.
16 Kent west! Bromfield sp.
N.B. This plant was formerly in frequent cultivation as a garden annual, and in many of its recorded counties it is simply a casual estray. Apparently it has become most

nearly a colonist in the two or three provinces named above. [Recorded also for 25 26 27 28 29 33 34 40 55 57 58 59 62 63 66 68 75 77 80 83; perhaps the greater part of these records really illustrating the proneness of botanists to swell out their local lists on the slightest possible pretence.]

10 Myosurus minimus.

3 Devon south. Error ?
7 Wilts north.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Bell Salter sp.
11 Hants south ?
12 north ?
13 Sussex west. Borrer ms.
14 east.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey ! Freeman sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks. Miss Bell sp,
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east. Bell sp.
28 west. Bell sp.
29 Cambridge. Henslow 1837.
30 Bedford. Hillhouse cat.
32 Northton ?
34 Gloster west ?
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby.
58 Chester. J.E. Bowman sp.
62 York n. east. Baker cat.
64 m. west.
65 n. west.
66 Durham ? "Extinct."
67 Northum. R.B. Bowman sp.

N.B. An inconspicuous plant, often of uncertain permanence through agricultural operations; thus it may become seemingly extinct, yet again be found in the same place at some after date. [New records desirable for 3 11 12 32 34 36 49 51 66, as shown above.]

11 Ranunculus aquatilis. Aggregate.

Counties all, excepting perhaps 42 48 74 88 89 97 98 101 103 105 107 108 112; and very likely to occur in all of these, unless the last, 112 Shetland, be an exception to its comital generality.

11*Ranunculus heterophyllus, Bab. Segregate.

In books this name has been so much used for any segregate of *aquatilis* with floating leaves, that it has become impossible in most cases to know which of the recent segregates is intended by the name. Apparently the following counties are recorded for the segregate *heterophyllus* as understood by

Professor Babington and those who use his Manual, and separated from the records of *diversifolius* as noted; 1 3 5 or 6 9 10 13 17 19 20 22 24 26 27 28 29 33 or 34 36 38 39 49 55 57 58 59 60 61 62 63 64 66 67 68 69 85. No guarantee is here given for the accuracy of any of these counties excepting 17 Surrey.

11*Ranunculus peltatus (including *floribundus* & *truncatus*.)

2 Corn. east. Wise sp.
3 Devon south. Briggs sp.
7 Wilts north. Marlb. flo.
9 Dorset. Pleydell cat.
10 Wight. More ms.
11 Hants south. Dyer & Trimen.
12 north. Townsend cat.
13 Sussex west. Hemsley.
14 east. Hemsley.
16 Kent west. Hiern.
17 Surrey. Hiern.
18 Essex south. Varenne ms.
19 n. Varenne. Gibson.
20 Herts.
21 Middlesex. Trimen & Dyer.
22 Berks.
24 Bucks. Britten cat.
25 Suff. east. Babington herb.
26 west. Babington herb.
27 Norf. east. Babington herb.
28 west.
29 Cambridge. Hiern.
33 Gloster east. Hiern.
34 west. Hort sp.
35 Monmouth. Hort sp.
38 Warwick. Kirk cat.
47 Montgomery. Melvill cat.
49 Carnarvon.
50 Denbigh. Hiern.
53 Lincoln south.
54 north.
58 Chester. Bailey.
59 Lanc. south. F. M. Webb.
60 west. Hiern.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. west.
65 n. west.
66 Durham. Hiern.
67 Northumberland. Baker.
68 Cheviot. Tate.
69 Westmoreland. Hodgson.
70 Cumberland.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
80 Roxburgh.
83 Edinburgh.
85 Fife. Syme sp.
87 Perth west. Bab. herb.
90 Forfar. Sturrock.
92 Aber. south. Syme.
00 Clyde-isles. Kennedy cat.

The distribution given for the very aggregate *aquatilis* likely represents that of *peltatus* with its subsegregates, much more nearly than the skeleton area given above, as taken from the records made expressly for *peltatus*, *truncatus*, *floribundus*, &c.

11*Ranunc. diversifolius (including *radians* and *Godronii*.)

20 Herts. Blow rec.
21 Middlesex. Blow rec.
29 Cambridge. Hiern herb.
38 Warwick. Hiern herb.
39 Stafford. Hiern herb.
58 Chester. Hiern herb.
60 Lancaster west. Hiern ms.

63 York south west. Carr. rec.
64 mid w. Webster rec.
80 Roxburgh. Brotherston rec.
N.B. The above show the few counties found on record for *Godronii* or *radians* unconfused with *heterophyllus* of "Fries" or Bab. Man.

11*Ranunc. trichophyllus.

3 Devon south.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Townsend cat.
13 Sussex w. J. L. Warren cat.
14 east. Roper rec.
17 Surrey.
18 Essex south. Gibson.
19 north. Varenne sp.
20 Herts. Pryor ms.
21 Middlesex. Syme sp.
24 Bucks. Britten cat.
25 Suffolk east. Babington.
26 west. Babington.
27 Norfolk east. Babington.
28 west. Babington.
29 Camb. Hiern & Babington.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Duthie sp.
36 Hereford. Purchas.
38 Warwick. Kirk sp.
54 Lincoln north. Lees rec.
58 Cheshire. Hunt sp.
62 York n. east. Baker sp.
63 s. west. Lees.
64 m. west. Lees.
66 Durham. Baker sp.
69 Westmor. Hodgson cat.
80 Roxburgh. Brotherston rec.
00 Clyde-isles. Galt.
06 Ross east. (G. C. Druce.)
09 Caithness. (Grant.)
11 Orkney. Syme ms.

This and *Drouetii* were treated as a combined unit in 'Topographical Botany,' by reason of the great difficulty experienced in attempting to assign the counties rightly in several instances; and it may still be held uncertain how far the county numbers are correctly shown above. It is questionable whether there is any absolute distinctiveness between these two and *heterophyllus* in its limited sense.

11*Ranunculus Drouetii.

2 Cornw. east. Tellam rec.
3 Devon south. Briggs sp.
4 north. Hiern.
7 Wilts north. Hiern.
9 Dorset. Pleydell sp.
10 Wight. More sp.
11 Hants south. Townsend cat.
12 north.
13 Sussex west. Arnold sp.
14 east. Roper.
16 Kent west. H. Groves rec.
17 Surrey. Hiern.
19 Essex north. Varenne sp.
20 Herts. Pryor ms.
22 Berks.
24 Bucks. Hiern.
26 Suffolk west. Hiern.
28 Norfolk west. Babington.
29 Cambridge. Hiern.
30 Bedford. Newbould ms.
34 Gloster west.
36 Hereford. Hiern.
37 Worcester. Bagnall ms.
38 Warwick. Kirk.
39 Stafford. Hiern.
50 Denbigh. Hiern.
54 Lincoln north. Blow rec.
58 Chester.

59 Lanc. s. F. M. Webb ms.
60 west.
63 York s. west. Carr. rec.
64 York m. w. F. A. Lees rec.
65 n. west. Baker ms.
66 Durham. Baker & Tate.
67 Northumb. Baker & Tate.
68 Cheviot. Baker & Tate.
69 Westmoreland. Melville.
83 Edinburgh. Syme sp.
11 Orkney. Fortescue fide Syme.

11*Ranunculus penicillatus, Dum. (*R. pseudo-fluitans*, Bab.)

5 or 6 Wilts. Hiern.
17 Surrey. Hiern.
20 Herts. Crespigny rec.
38 Warwick. Bagnall rec.
56 Notts. Hiern.
57 Derby. Hiern.

11*Ranunculus Baudotii (including *confusus*.)

1 Cornwall west. Tellam rec.
2 east. Tellam rec.
3 Devon south. Rogers rec.
4 north. Hiern.
5 Som. south. Blow rec.
6 north.
9 Dorset.
10 Wight. Hiern.
11 Hants south. Hiern.
13 Sussex west. Hiern.
14 east. Bailey rec.
15 Kent east. Hiern.
16 west. Groves rec.
18 Essex south.
19 north. Hiern.
27 Norf. east.
28 west.
34 Gloster west. Hiern.
35 Monmouth.
50 Denbigh. Hiern.
53 Lincoln south. Fowler rec.
54 n. Fowler & Blow rec.
58 Chester.
59 Lanc. south.
60 west. Hiern.
62 York n. east.
66 Durham.
76 Renfrew.
80 Roxburgh.
81 Berwick.
82 Haddington.
83 Edinburgh.
84 Linlithgow.
99 Dunbarton.
09 Caithness. Nicolson cat.

N.B. The varieties, as placed under this name in the London Catalogue, are taken into account in giving these county numbers. The *confusus* has been recorded by its name, rightly or wrongly applied, in counties 1 4 5 6 7 9 11 13 18 19 27 28 45 60 62 66 76 82 83 84. *Baudotii* also has been specially recorded for all of these except perhaps 6 7 27 45 60. [Confirmation needed in 29 77 80 81.]

11*Ranunculus circinatus.

3 Devon south. Briggs.
6 Somers. north. Withers sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Spicer.
12 north.
13 Sussex west. Borrer cat.
14 east! Mrs. Jones sp.
15 Kent east! Hind sp.
16 west. Crespigny sp.
17 Surrey! Biden sp.
18 Essex south.

19 Essex north. Varenne cat.
20 Herts.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten ms.
25 Suffolk east. Stock.
26 west. Blomf. ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington sp.
30 Bedford. Newbould ms.
31 Hunts!
32 Northton!
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford. R. C. Douglas sp.
41 Glamorgan. Gutch cat.
42 Brecon. Ley rec.
49 Carnarvon. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam sp.
58 Chester.
62 York n. east. Baker sp.
63 s. west. Newbould ms.
64 m. w. F. A. Lees rec.
65 n. west? "Ward."
68 Cheviotland. Tate cat.
81 Berwick.
83 Edinburgh. Salter sp.
85 Fife. I. Balfour ms.
86 Stirling. Hunt.
90 Forfar. Roy, "occurs."
[10 Flora Vectensis. Said to have been a misnomer. Additional authorities desirable for 49 65.]

11*Ranunculus fluitans.

1 Cornwall west. Cunnack.
3 Devon south. Rossall.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer ms.
15 Kent east. Baker cat.
16 west?
17 Surrey! Newbould sp.
18 Essex south.
19 Essex north.
20 Herts?
21 Middx. Newbould sp.
22 Berks. Arthur Bennett sp.
23 Oxford.
24 Bucks. Britten cat.
26 Suffolk west. "Bab. herb."
28 Norfolk west. "Bab. herb."
29 Cambridge. "Hiern. herb."
30 Bedford.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley ms.
52 Anglesea.
54 Lincoln north. Fowler rec.
55 Leicester. Bloxam sp.
57 Derby. "Bab. herb."
58 Chester. F. M. Webb ms.
59 Lanc. south. "Dugdale."
62 York n. east. Baker sp.
63 s. west. Carr rec.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Makepeace sp.
68 Cheviotland. Tate cat.
70 Cumberland. Hodgson rec.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.

81 Berwick. Syme sp.
[85 Fife? Dubious also in 8 16 20, and certainly an error in 10.]

11*Ran. intermedius, Hiern (including *tripartitus.*)

1 Cornwall west. Westcombe!
2 east. Tellam rec.
9 Dorset. "Borrer ms."
11 Hants south!
14 Sussex east. Roper rec.
16 Kent west. "W. Reeves ms."
17 Surrey!
45 Pembroke. Bab. sp.
[83 Edinburgh.]

12 Ranunc. Lenormandi. Segregate.

1 Cornwall west. Rogers ms.
2 east. Briggs. cat.
3 Devon south. Keys sp,
4 n. "Hiern. Herb."
5 Som. south. Coleman cat.
6 north. Withers ms.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. (Howse sp.)
16 Kent west. "Bab. herb."
17 Surrey!
22 Berks!
25 Suffolk east? Skepper ms.
27 Norfolk east. Babington.
34 Gloster west. Ley cat.
35 Monmouth. Hort sp.
38 Warwick. Kirk cat.
39 Stafford. Babington ms.
41 Glamorgan. Barnard ms.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardingan. Atwood sp.
47 Montgomery. Melvill cat.
48 Merioneth.
49 Carnarvon. "Bab. herb."
51 Flint. Robinson cat.
55 Leicester. Purchas sp.
58 Chester. J. L. Warren sp.
59 Lanc. south. Goodlad sp.
60 west. "Hiern herb."
63 York s. west. Newb. ms.
64 m. west.
65 n. west. Baker sp.
66 Durham. F. A. Lees ms.
67 Northumberland.
69 Westmoreland!
70 Cumberland! Hort sp.
72 Dumfries.
76 Renfrew. Hennedy cat.
77 Lanark. Gourlie sp.
00 Clyde isles. Galt ms.

N.B. This is still noted as a *segregate*, because not distinguished apart from *hederaceus* or *aquatilis*, even so lately as the first edition of the 'Manual of British Botany" in 1843. A plant in this position will be on imperfect record still; omitted from local floras and lists of earlier dates, and occasionally remaining unnoticed at later dates. A like explanation, without being again repeated, will apply to some other *segregates* now usually noticed and recorded as *ver-species*. There are, however, some local confusions between this species and *intermedius;* the two not always distinguished in a dried state. [19 25 51.]

13 Ranunc. hederaceus.

Counties all, except 26 31 42 46 48 74 78 97 98 104 105 108 111 112. Perhaps really absent from the last two, Orkney and Shetland.

14 Ranunculus Ficaria.

Counties all, except 42 46 74 97 98 101 102 104 107 108 110; in all of which it most likely does occur.

15 Ranunculus Flammula.

Counties all, except 42 74, in which doubtless it does occur.

15 Ranunculus reptans.

85 Kinross. Boswell Syme sp.
Loch Leven, in the little county of Kinross, still remains the only certain locality. The margin of Coniston Water, in Lake Lancashire, is less sure. In many other counties a procumbent or prostrate state of *Flammula* has been misreported under the name of *reptans*.

16 Ranunculus Lingua.

1 Cornwall west. Cunnack sp.
2 east. Wise sp.
3 Devon south. "E. Parfitt."
4 north?
5 Somerset south?
6 north.
7 Wilts north. Flower cat.
8 south. Hussey rec.
9 Dorset. Pleydell cat.
10 Wight!
11 Hants south. Pamplin ms.
12 Hants north.
13 Sussex west.
14 east. Roper ms.
15 Kent east. Stevens sp.
16 west.
19 Essex north.
20 Herts. T. B. Blow cat.
21 Middlesex?
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Blomf. cat.
26 west. Wallis sp.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Bree sp.
32 Northton. Druce rec.
36 Hereford.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Bodenham sp.
41 Glamorgan. Gutch sp.
42 Brecon.
43 Radnor.
45 Pembroke. Babington cat.
48 Merionth. J.E. Bowman ms.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. s. Fowler & Lees rec.
54 north!
55 Leicester. Bloxam ms.
56 Notts?
57 Derby?
58 Chester. J. L. Warren cat.
59 Lanc. south. Tudor ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Denny ms.
64 m. west.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp,

68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright ?
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh ! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme sp.
87 Perth west.
88 mid. "Loch Earn."
90 Forfar. Croall sp.
92 Aber. south. Dickie cat.
93 north. Dickie sp.
95 Elgin. Gordon cat.
[21 37 49 111.]

18 Ranunculus auricomus.

1 Cornwall west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ?
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Harris sp.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock sp.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Jones cat.
47 Montgomery. Melville cat.
49 Carnarvon. Robinson cat.
50 Denbigh ! J. E. Bowman cat.
51 Flint. R. Brown ms.
52 Anglesea.
53 Lincoln s. Fowler & Lees rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester ! Rylands sp.
59 Lanc. south. Goodlad herb.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Simpson sp.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland ! Baker cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark Hooker sp.

79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick. Embleton sp.
82 Haddington Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid. Worsley cat.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
93 north.
96 Easterness. Stables sp.
99 Dumbarton.

19 Ranunculus acris.

Counties all, except 74 78.

20 Ranunculus repens.

Counties all, except 74 78.

21 Ranunculus bulbosus.

Counties all, except 42 53 74 84 97 98 101 103 104 105 106 107 108 110 (111) 112.

22 Ranunculus hirsutus.

1 Cornwall west. Cunnack cat.
2 east. Briggs sp.†
3 Devon south. Henfrey sp.
4 north. Rogers rec.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight! Bell Salter sp.
11 Hants south! Notcutt cat.
13 Sussex west. Borrer cat.
14 east! Coleman cat.
15 Kent east. G. E. Smith cat.
16 Kent west. Syme sp.
17 Surrey! Brewer sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex. J. L. Warren sp.
22 Berks.
23 Oxford. Beesley cat.
25 Suffolk east. Paget sp.
26 west.
27 Norfolk east. Stock ms.
28 west. Bell sp.
29 Cambridge.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
34 Gloster west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas ms.
37 Worcester. Buckman sp.
39 Stafford.
40 Salop. Bodenham sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke?
46 Cardigan. Atwood sp.
47 Montgom. J. E. Bowman sp.
48 Merion. J. E. Bowman ms.
49 Carnarvon.
50 Denbigh. J. E. Bowman ms.
51 Flint. R. Brown ms.
54 Lincoln north!
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south!
60 Lanc. west. Boswell ms.
61 York s. east. Parsons rec.
62 n. east. Baker cat.
63 s. west. Parsons rec.
64 m. west. Tatham cat.
66 Durham. Lees ms.
67 *Northumb.* "ballast hills."
68 Cheviotland. Tate ms.
69 Westmoreland.

70 Cumberland.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Brotherston. rec.
83 Edinburgh.
84 Linlithgow.
85 Fife. Dewar sp. Syme cat.†
86 Stirling.
87 Perth west. Balfour sp.
88 mid.
89 east.
90 Forfar.
98 Argyle.
N.B. Scarcely more than a casual plant northward of Yorkshire.

23 Ranunculus sceleratus.

All the counties on record with exceptions rather numerous in Scotland, viz., 42 43 47 48 60 71 73 74 78 79 88 89 97 98 104 105 107 108 111 112.

24 Ranunc. parviflorus.

1 Cornwall west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Trevelyan sp.
6 north.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Bromf. sp.
12 north. Pamplin ms.
13 Sussex west. Arnold sp.
14 east. Roper cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey. Syme sp.
18 Essex south.
19 Essex north. Wallis sp.
20 Herts. Brown sp.
21 Middlesex. Kingsley sp.
22 Berks.
23 Oxford. H. W. Trott sp.
24 Bucks. Britten cat.
25 Suffolk east. Coleman. ms.
26 west.
27 Norfolk east. Bell sp.
28 west. Bell sp.
29 Cambridge. Douglas sp.
30 Bedford. Hillhouse cat.
32 Northampton. Druce ms.
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Leefe sp.
39 Stafford.
40 Salop. Tudor sp.
44 Carmarthen.
45 Pembroke.
47 Montgom. J. E. Bowman ms.
49 Carnarvon! J. Ball ms.
50 Denb. J. E. Bowman cat.
51 Flint. Rev. J. Harris sp.
52 Anglesea.
53 Linc. south.
54 north. Thompson ms.
55 Leicester. Bloxam sp.
56 Notts.
58 Chester.
59 Lanc. south.
62 York n. east. Foggitt sp.
63 s. west. Lees ms.
65 n. west.
66 Durham.
69 Westmor. Miss Barnard.

25 Ranunculus arvensis.

1 Cornwall west?
2 east. Briggs cat.†
3 Devon south. Briggs cat.†
5 Som. south. Coleman cat.

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Biden sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman oat.
21 Middx. Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
26 west.
27 Norf. east.
28 west. G. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Bodenham sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
47 Montgom. J.E. Bowman ms.
50 Denbigh.
51 Flint. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
51 Chester!
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Paine sp.
66 Durham. R. B. Bowman sp.
67 Northumb. R.B.Bowman sp.
68 Cheviotland.
69 Westmoreland. Baker ms.
70 Cumberland. Baker cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†
81 Berwick.
82 Haddington. Balfour ms.†
83 Edinburgh. Macnab sp.
(109 Caithness. Nicolson.)
[111 Orkney.] (85.)

26 Caltha palustris.

Counties all, except 42 74 98; in all of which it is sure to be found if looked for. C. Guerangeri occurs in 3 17 23 36 38 58 62, and probably elsewhere.

27 Trollius europæus.

35 Monmouth. Conway ms.
36 *Hereford.* Purchas flo.†
37 Worcester?
39 Stafford.
40 Salop. Leighton ms.
41 Glamorgan.
42 Brecon. Moggridge sp.
43 Radnor. Westcombe ms.
46 Cardigan. Atwood ms.
47 Montgom. F. A. Lees ms.
48 Merioneth. Poole ms.
49 Carnarv! J. E. Bowman ms.
50 Denbigh.
57 Derby!
58 Chester?
59 Lanc. south. Goodlad hb.
62 York n. east. Baker cat.

63 York s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Simpson sp.
66 Durham. Norman cat.
67 Northamb. Miss Bell sp.
68 Cheviotland. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. G. Cooper sp.
78 Peebles. Dyer.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh! Balfour cat.
84 Linlithgow! Balfour cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west. Syme cat
88 mid!
89 east! Gibson ms.
90 Forfar!
91 Kinc. Miss Boswell ms.
92 Aber. south! Dickie cat.
93 north. Dickie fl.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle.
99 Dumbarton! Hooker sp.
00 Clyde isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Eb. mid. (Mull.) Ross rec.
04 Skye. Lawson cat.
06 Ross east. Gordon ms.
08 Suth. west!
09 Caithness. R. Brown cat.
11 Shetland. One locality.
[2 East Cornwall.]

29 Helleborus viridis.

2 Cornwall east.*
3 Devon south.*
6 Som. north. Winch sp.
9 Dorset. Trevelyan sp.
11 Hants south. Borrer ms.
12 north.
13 Sussex west. Borrer ms.
14 east. Borrer.†
15 Kent east. "native."
17 Surrey. Brewer sp.
18 Essex south. "native."
19 north. Wallis sp.
20 Herts. "really wild."
24 Bucks. Britten cat.
33 Gloster east. Roberts ms.
34 west. Babington.
36 Hereford. Ley sp.
49 Carnarvon. Robinson cat.*
51 Flint. Robinson cat.*
60 Lanc. west. "native."
62 York n. east. "native."
63 s. w. G. E. Smith sp.
64 m. west. "native."
65 n. west. "native."
66 Durham. "denizen."
67 Northumb. "denizen."
69 West. "apparently native."
74 Wigton. (Macnab sp.)

N.B. The above counties are selected as being those in which the wildness of the plant is best attested. Reported also for 1 7 8 10 21 22 23 24 25 26 27 28 29 30 32 37 38 39 40 41 45 49 50 51 56 57 68 70 75 81 83 85 91 92; in all with distrust of its true nativity, or on unsafe authority only.

30 Helleborus fœtidus.

11 Hants south. "wild."
12 north.
13 Sussex west.
16 Kent west. Arthur Bennett.
17 Surrey. Brewer sp.

18 Essex south. "a true native."
19 north.
33 Gloster east. "native."
36 Hereford. "native."
62 York n. east. "denizen."
64 m. west. Tatham sp.
66 Durham, "denizen."
67 Northumb. "denizen."
N.B. Less decidedly certified as a native plant, than is the other species. (Reported in 2 3 6 7 8 9 10 16 20 22 to 30 32 34 37 38 39 40 41 50 52 55 57 61 63 68 69 70 75 77 80 81 82 83 85 92; in most of these counties it is given simply as an escape from cultivation, or with the evident object of swelling out the length of local lists.)

31 Aquilegia vulgaris.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Wakefield sp.
5 Som. south. Coleman cat.†
6 north. Thwaites cat.
7 Wilts south. Flower cat.
8 north. Flower cat.
9 Dorset. Pleydell cat,
10 Wight.
11 Hants south. Towns. cat.
12 north. Spicer ms.
13 Sussex west. "many loc."
14 east. Coleman cat.†
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey. Holman sp.
20 Herts.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
27 Norfolk east. Stock cat.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east?
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Reeve sp.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton ms.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Pamplin ms.
49 Carnarvon! Winch ms.
50 Denbigh! J. E. Bowman ms.
51 Flint. R. Brown ms.
52 Anglesea.
56 Notts?
57 Derby. Howitt cat.
58 Chester?
60 Lanc. west.* Hiern ms.
62 York n. east. Baker sp.
63 s. west. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. "native."
67 Northumb. "native."
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. "wild."
(Also in 18 19 [21] 25 26 48 54 55 68 71 75 77 79 83 84 85 86 87 90 91 92 95 26 102 109.)

33 Aconitum Napellus.

5 Som. south. Crotch sp.
9 Dorset. Bower to Crotch sp.
35 Monmouth. wild; Hort.
36 Heref. indigenous; Newm.
50 Denb. wild; J. E. Bowman.

(Reported also in 1 3 4 10 12 17 19 20 21 23 24 27 28 33 37 38 39 40 41 47 49 51 55 61 62 64 65 67 76 77 81 83 85 86 105 109.)

34 Actæa spicata.

62 York n. east. Baker sp.
63 s. west. Denny sp.
64 m. west. Tatham sp.
65 n.w. R.B. Bowman sp.
69 Westmor. Dr. Lees 1870. [18 61 66 70 85.]

35 Berberis vulgaris.

1 Corn. west. Cunnack cat.†
2 east. Briggs cat.
3 Devon south. Briggs cat,
4 north. Maw cat.†
5 Som. south. Parson rec.
6 north. Bath flo.†
7 Wilts north. "indigenous."
8 south. Flower cat.*
9 Dorset. Pleydell cat.
10 Wight. More supp.*
12 Hants north. Bromf.†
13 or 14 Sussex. Hemsley.†
16 Kent west. "not wild."
17 Surrey. Casual in hedges.
18 Essex south. Gibson flo.
19 north. Gibson flo.
20 Herts. Coleman cat.
21 Midx. Reynolds sp.
22 Berks. Walker flo.
23 Oxford. Beesley.
24 Bucks. Britten cat.
25 Suffolk east. Skepper flo.
26 west. Skepper flo.
27 Norfolk east. Trim. flo.
28 west. Trim. flo.
29 Cambridge. Babington flo.
30 Bedford. Fordham sp.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Bath flo.*
35 Monmouth. Gissing.
36 Hereford. Purchas flo.*
37 Worcester. Lees bot.
38 Warwick. Kirk cat.
39 Stafford. "really wild."
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denbigh. Bowman cat.†
51 Flint. Robinson cat.
54 Lincoln north. Bogg cat.
55 Leicester. Kirby flo.
56 Notts. Howitt flo.
57 Derby. Howitt cat.
58 Chester. Liverpool flo.*
59 Lanc. south. Dick. flo.*
61 York s. east. Authority?
62 n. east. Baker cat.
63 s. west. Lees cat.†
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. "denizen."
67 Northumb. "denizen."
68 Cheviot. "denizen."
69 Westmor. Balfour.
70 Cumber. Baker ms.*
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Botany of Ayr.
76 Renfrew. Hennedy cat.†
77 Lanark. Clydesdale flo.
80 Roxburgh. Duncan cat.
81 Berwick. Border flo.*
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Balf. flo. Lawson.†
87 Perth west. Syme cat.†
88 mid. Arnott.
89 east. "not wild."
90 Forfar. Gardiner flo.*
91 Kincardine.
92 Aber. south. Dickie cat.*
95 Elgin. Gordon cat.*
00 Clyde isles. Hennedy cat.†
01 Cantire. Balfour cat.

09 Caithness. R. Brown cat.

N.B. A departure from the usual method is made in this case of the Berbery, so difficult to decide on its indigenous claims. Authorities are cited throughout, either manuscript or printed. The sign * indicates that the cited authority treats the shrub as certainly introduced; the sign † indicates less positive decision against nativity.

36 Nymphæa alba.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
6 Somerset north?
9 Dorset. Pleydell cat.
11 Hants south! Adams sp.
12 north!
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex s. (E. Forster sp.)
20 Herts.
21 Middlesex! Harris.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts?
32 Northton. Druce rec.
37 Worcester. "Very rare."
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Dyke sp.
42 Brecon. F. A. Lees ms.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
55 Leicester. Bloxam cat.†
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
60 west! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Lees cat.
64 m. west. Lees cat.
67 Northumb. Oliver sp.
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Montgomery ms.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherst. rec.†
83 Edinbugh. Balfour cat.
85 Fife. G. Lawson ms.
86 Stirling. Croall rec.*
87 Perth west.
90 Forfar. Sturrock.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness. Brand sp.
99 Dumbarton.
00 Clyde isles.
02 Eb. south. Balfour cat.
03 Mull. Ross cat.
04 Eb. north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!
09 Caithness. Nicolson cat.

10 Hebrides.
12 Shetland. "one locality." (Also reported as introduced or uncertainly wild in 3 7 8 10 18 19 34 35 65 68 81 109.)

37 Nuphar lutea.

1 Cornw. west.* Cunnack ms.
3 Devon south.
6 Som. north!
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Blomfield.
15 Kent east! Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south! F. M. Webb cat.
60 west. Linton rec.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Norman cat.
67 Nrthmb. R. B. Bowman cat.
68 Cheviotland. Tate cat.
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick. Hugh Balf. sp.
82 Haddington.
83 Edinburgh.
85 Fife. Brand sp. Syme.
86 Stirling. Croall rec.
88 Perth east. Dyer.
90 Forfar. Sturrock.
91 Kincardine.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon cat.†
99 Dumbarton!
00 Clyde-isles. Hennedy cat.

02 Eb. south. Balfour cat.
03 mid. Mull. Ross rec.

37*Nuphar intermedia.

67 Northumb. Trevelyan sp.
88 Perth east. Dyer.

38 Nuphar pumila.

40 Salop. W. Jones.
86 Stirling. Clyde flo.
87 Perth west. Christie sp.
88 Perth mid. Drummond-Hay.
91 Kincar. Dickie bot. g.
92 Aber. south. Dickie bot. g.
95 Elgin. Gordon sp.
96 Easterness. "White."
98 Argyle. "Borrer," etc.
[9 29 32 56 58 67 77.]

39 Papaver hybridum.

1 Corn. west. Bailey ms.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Maw. cat.
6 Som. north. Collins ms.
7 Wilts north.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Bromfield sp.
11 Hants south?
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Mrs. Jones sp.
15 Kent east. Cooper sp.
16 west!
17 Surrey! Salmon sp.
18 Essex south.
19 north. Christy sp.
20 Herts. Fordham sp.
22 Berks.
23 Oxford.
25 Suffolk east.
26 Suffolk west. Skepper cat.
27 Norf. east. C. C. Babington.
28 west. Miss Bell sp.
29 Cambridge. Coleman ms.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. E. Lees, 1843.
36 Hereford. "Wilmott."
37 Worcester.
49 Carnarv. J. E. Bowman sp.
51 Flint?
55 Leicester. "Miss Adams!"
59 Lanc. south. Ex. club sp.
63 York s. west. F. A. Lees.
66 Durham. R. B. Bowman sp.
(61 62 68, extinct?)

40 Papaver Argemone.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Hore sp.
4 north. Maw cat.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Martin sp.
11 Hants south. Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east! J. L. Warren.
15 Kent east! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Miss Twining sp.
21 Middlesex!
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper.
27 Norf. east. Stock cat.
28 Norf. west. G. Cooper sp.

29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.†
64 m. west.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
71 I. Man. Forbes cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Maughan sp.
84 Linlithgow. Dyer.
85 Fife. Syme cat.
86 Stirling. Duthie sp.
89 Perth east!
90 Forfar.
91 Kincardine.
92 Aber. south.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
05 Ross west. (Druce cat.)
06 east. Gordon cat.
10 Hebrides.

41 Papaver dubium.

Counties all, except 35 43 46 70 71 73 74 78 97 98 99 103 104 105 108; in all of which it is very likely to occur. The counties for the two segregates cannot be satisfactorily made out.

41*Papaver Lecoquii. Segr.

14 Sussex east. Roper.
16 Kent west rec.
17 Surrey. Groves rec.
20 Herts. R. A. Pryor.
24 Bucks rec.
26 Suffolk west. Blomfield cat.
27 Norf. east. C. C. Babington.
29 Cambridge. C. C. Babington.
30 Bedford. Blow rec.
32 Northampton. Druce.
38 Warwick. Bromwich.
62 York n. east. Foggitt rec.
80 Roxburgh. Brotherston.
85 Fife? Syme.
05 Ross west. Druce rec.

42 Papaver Rhoeas.

Counties all, except 43 46 70 71 72 73 74 78 79 88 89 95. In 92 93 94 it is marked by Professor Dickie as a plant probably introduced; and

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beyond 94 (Banff) there is no authority except for 103 105 109 111 112, into which this common southern poppy is probably carried with agricultural seeds.

44 Meconopsis cambrica.

2 Cornwall east.
3 Devon south.
4 north! Maw cat.†
5 Som. south. Coleman cat.
6 north. Thwaites sp.
35 Monmouth. Ley.
41 Glamorgan.
42 Brecon. Moggridge sp.
43 Radnor.
47 Montgomery, Melvill cat.
48 Merioneth. Butler sp.
49 Carnarvon! Winch.
50 Denbigh?
64 York m. w. Tatham, "wild." (9 21 59 60 61 62 63 65 69 70 72 75 83 85 90 92 95). This poppy readily establishes itself as a weed about houses and gardens; and hence it has become seemingly wild in several counties; possibly it may be really wild in Westmoreland.

45 Chelidonium majus.

Counties 1 to 96, with very few exceptions, have all been reported for this plant, but usually as one at best doubtfully indigenous.

46 Glaucium luteum.

1 Corn. west! Cunnack cat.
2 east. Pascoe sp.
3 Devon south. Briggs cat.
4 Devon north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! Miss Twining sp.
11 Hants south! Notcutt cat.
13 Sussex west! Warner sp.
14 e. J. L. Warren cat.
15 Kent east! Stevens sp.
18 Essex south. Varenne ms.
19 north. Skepper ms.
25 Suffolk east. Purchas cat.
27 Norfolk east. Paget sp.
28 west. Bell sp.
34 Gloster west. Cooper sp.
35 Monmouth. Conway ms.†
41 Glamorgan. Dyke sp.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
48 Merioneth. Ley rec.
49 Carnarvon. Howitt sp.
50 Denbigh. J. E. Bowman cat.
51 Flint. H. L. Jones rec.
52 Anglesea.
58 Chester! J. L. Warren cat.
59 Lanc. south!
60 west. Syme sp.
61 York s. east.
62 n. east.
69 Westmoreland.
70 Cumberland.
71 Man. (Hobkirk.)
72 Dumfries.
73 Kirkcudbright.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Montgomery cat.
81 Berw. Hugh Balfour sp.
82 Haddington.
84 Linlithgow.
85 Fife. Balfour sp.
91 Kincardine.
98 Argyle. Hooker sp.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.

12 *Shetland*. One locality.
(21 37 66 67 80 95.)

48 Corydalis claviculata.

1 Corn. west.
2 east. Pascoe cat.
3 Devon south! Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Bromf. ms.
12 north. Ar. Bennett.
13 Sussex west. Baker ms.
14 east. Roper.
15 Kent east. G. E. Smith cat.
16 west. Berkeley ms.
17 Surrey!
18 Essex south. Freeman sp.
19 north.
22 Berks.
24 Bucks. Druce rec.
25 Suffolk east. Bloomfield.
27 Norf. east. Cooper sp.
28 west. Miss Bell ms.
30 Bedford. Druce rec.
35 Monmouth. Conway sp.
36 Hereford. "Wilmott."
37 Worcester? E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton ms.
42 Brecon.
43 Radnor. E. H. Jones rec.
44 Carmarthen. Jones rec.
46 Cardigan.
47 Montgomery. Melville cat.
48 Merioneth. Britten cat.
49 Carnarv. J. E. Bowman ms.
50 Denbigh.
51 Flint.
52 Anglesea.
54 Linc. n. F. A. Lees & Fowler.
55 Leicester. Bloxam sp.
57 Derby! J. E. Bowman ms.
58 Chester. J. L. Warren cat.
59 Lanc. south. Goodlad hb.
60 west. Linton rec.
61 York s. east. Carpenter sp.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward ms.
66 Durham. Storey sp.
67 Northumb. R.B.Bowman sp.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland! Baker ms.
72 Dumf. Cruickshank sp.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renf, Montgomery cat.
80 Roxburgh. Brotherston.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow. (Shuttleworth.)
85 Fife.
86 Stirling.
87 Perth west! Syme cat.
88 mid! Worsley cat.
90 Forfar?
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy sp.
01 Cantire. Balfour cat.
04 Eb. north. Lawson cat.
05 Ross west. (Druce.)
06 east. Gordon cat.
[21 Middlesex extinct, if ever found. 26.]

50 Fumaria capreolata.

Counties all, except 6 16 26 30

32 42 43 53 71 74 78 89 97 98 99 103 104 105 106 107 109 112. 20 uncertain.

N.B. This is the aggregate species, long treated as a single integrate species in our botanical books; more recently divided into four segregates, which are yet very imperfectly distinguished by collectors; their reported counties, cited underneath, are to be received with caution.

50*Fum. pallidiflora. Segr.

1 Corn. west. "Once seen."
3 Devon south. Babington.
4 north. Babington.
5 Som. south. Syme.
9 Dorset. Mansel-Pleydell.
10 Wight. "Hambrough."
14 Sussex east. Roper.
19 Essex north. Groves rec.
21 Middlesex.
34 Gloster west?
38 Warwick. (Bromwich.)
40 Salop. Babington.
41 Glamorgan. Babington.
45 Pembroke. (Trimen.)
49 Carnarvon. Babington.
58 Chester.
59 Lanc. south.
60 west. Carr rec.
62 York n. east. Baker.
66 Durham. New flo. N.D.
70 Cumberland. Baker.
79 Selkirk.* Brotherston rec.
80 Roxburgh.
08 *Sutherland!*

50*Fum. Boræi. Segregate.

2 Cornwall east.
4 Devon north. Hiern.
5 Som. south?
10 Wight?
11 Hants south. Blow rec.
14 Sussex east. Roper.
17 Surrey. Arthur Bennett.
20 Herts? R. A. Pryor.
21 Middlesex.
25 Suffolk e. Ch. Bab. rec.
36 Hereford. Ley rec.
40 Salop. Babington.
44 Carmarthen. Jones rec.
45 Pembroke. Babington.
47 Montgomery. Melvill cat.
48 Merioneth. Ley rec.
50 Denbigh. Bailey rec.
58 Chester. R. Brown.
59 Lanc. south. R. Brown.
61 York s. east. Parsons rec.
62 n. east. Baker.
65 n. west. Baker.
66 Durham. "Norman."
67 Northumberland. Baker.
69 Westmoreland. "Bab."
70 Cumberland. Baker.
76 Renfrew. Hennedy.
77 Lanark. Hennedy.
80 Roxburgh. Brotherston rec.
81 Berwick. Brotherston rec.
82 Haddington. Syme.
85 Fife. Boswell Syme.
86 Stirling. Croall rec.
11 Orkney. Boswell Syme.
[24 46 53 63.]

N.B. Habitats confused with those of "*pallidiflora.*"

50*F. confusa ("*agraria.*") Segregate.

1 Corn. west. Babington.
2 east. Briggs.
3 Devon south. Briggs.
4 north. Babington.
5 Somerset south. Flower rec.
9 Dorset. Mansel-Pleydell.
10 Wight. More. "Bab. herb."

11 Hants south. Trimen.
14 Sussex east. Roper.
17 Surrey! Syme.
35 Monmouth. Ley rec.
38 Warwick. (Bloxam.)
45 Pembroke. Babington.
46 Cardigan. Babington.
48 Merioneth. Ley rec.
49 Carnarvon. Babington.
52 Anglesea. Babington.
58 Chester. Eng. bot. ed. 3.
59 Lanc. south.
62 York n. east. Baker.†
63 s. west.
69 Westmoreland. Babington.
85 Fife. Syme.
87 Perth west. Drummond.

50*Fumaria muralis. Segr.

3 Devon south. Tate, 1871.
5 Som. south. Syme.
10 Wight. More. E.B. 3.
11 Hants south!
14 Sussex east. Roper.
17 Surrey. Babington.
21 Middlesex.
29 Cambridge. Babington ms.
34 Gloster west.
38 Warwick. Bloxam ms.
40 Salop. Babington.
50 Denbigh. Babington.
58 Chester.
59 Lanc. south. Lewis rec.
63 York s. west. Newb. Bab.
64 m. west. Baker.
66 Durham.
86 Stirling.

N.B. Habitats inextricably confused in books with those of "*confusa*." For this and the preceding three segregates the few botanists cited are to be understood as those who have either collected the plant or only so named the specimens collected by others; the "sp." being omitted by the compiler, as not caring to certify their names on dried specimens only; his own notes of past years recognizing only the aggregate "*capreolata*."

51 Fumaria officinalis.

Counties all, except 42 47 48 74 98 101 102 104 105 107 110; in all of which it likely occurs, at least as a colonist.

52 Fumaria micrantha.
(*F. densiflora.*)

8 Wilts south. Flower sp.
9 Dorset. Pleydell sp.
11 Hants south. Pryor.
12 north. Townsend.
13 Sussex west!
14 east. "Mitten."
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
19 Essex north. "alien."
20 Herts.
21 Middlesex.
23 Oxford. (Newbould.)
28 Norfolk west.
29 Cambridge. Bab. sp.†
30 Bedford. Newbould ms.
34 Gloster west. Withers ms.
36 Hereford. "E. Davies!"
40 Salop. Babington sp.
55 Leicester.
56 Durham. "ballast hills."
63 York s. w. F. A. Lees rec.*
68 Cheviotland. Tate sp.
80 Roxburgh. Brotherston.
82 Haddington. Syme ms.
83 Edinburgh. Brand sp.

84 Linlithgow. Syme E. B. 3.
85 Fife. Syme sp.
88 Perth mid.
90 Forfar. Carnegie sp.
95 Elgin. "Dr. Innes."
[10 Wight. 112 Shetland.]

53 Fumaria parviflora.

12 Hants north. Townsend.
15 Kent east.
16 west. Syme sp.
17 Surrey!
19 Essex north. Gibson sp.
20 Herts. Miss Barnard sp.
24 Bucks. R. A. Pryor.
25 Suffolk east?
26 west. Bunbury sp.
27 Norfolk east.
29 Cambridge. Hort sp.
30 Bedford. Blow rec.
33 or 34 Gloster. E.C. rep.1864
62 York n. east. Bean sp.
80 Roxb. Brotherston rec.*
82 Haddington. Balfour cat.
83 Edinburgh.
87 Perth west.
[Very uncertain in 3 4 9 90 95 96 109 112; errors in some, casual in others?].

54 Fumaria Vaillantii.

15 Kent east. Henslow.
16 west. Syme.
17 Surrey! Syme.
19 Essex north. Gibson sp.
20 Herts. R. H. Webb flora.
29 Cambridge. Bab. sp.
30 Bedford. Blow.
53 Lincoln s. Streatfield rec.
62 York n. east. "Vetch-field."
66 *Durham*. "ballast hills."
[Reported also in 3 12 26 31 33 or 34 83 112; either introduced or errors?].

55 Cakile maritima.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Twining sp.
4 north. Maw cat.
5 Som. south. Collins ms.
6 north. Crotch sp.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south. Towns. cat.
13 Sussex west. J. L. Warren.
14 east. Dyer.
15 Kent east. G. E. Smith cat.
18 Essex south.
19 north. Skepper ms.
25 Suffolk east. Purchas cat.
27 Norf. east. C. C. Babington.
28 west. Cooper sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Gardigan. Purchas ms.
48 Merioneth. Butler sp.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. R. Brown.
52 Anglesea.
54 Lincoln north. Bogg cat.
58 Chester! J. L. Warren cat.
59 Lanc. south! Ch. Bab. ms.
60 west.
61 York s. east.
62 n. east. Baker cat.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
73 Kirkcudbright.
75 Ayr. Hooker sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme sp.

90 Forfar.
91 Kinc. Mrs. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
08 Suth. west !
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

56 Crambe maritima.

2 Corn. east. Watt in B. G.
3 Devon south. G. Lloyd sp.
4 north. Ravenshaw.
6 Som. north. Collins ms.
9 Dorset. Pleydell cat.
10 *Wight.* Bromfield ms.
11 Hants south. Bromf. cat.
13 Sussex west. Borrer ms.
14 east. Salmon.
15 Kent east. G. E. Smith cat.
19 Essex north. Extinct ?
25 Suffolk east. Skepper flo.
27 Norfolk east. Smith in B. G.
41 Glamorgan. B. G. Dill. Mat.
45 Pembroke. Turton in B. G.
49 Carnarvon. Christy. Winch.
52 Anglesea. J. E. Bowman ms.
54 Linc. north. Banks in B. G.
61 York s. east. Baines flo.
62 n. east. Brunton.
69 Lake Lanc. Aiton. B. G.
70 Cumb. Robson. B. G.
71 Man. Forbes cat. "rare."
73 Kirkcud. G. N. Lloyd ms.
74 Wigton. Balfour sp.
75 Ayr. Bot. of Ayrshire.
81 Berw. "A. Carr, 1830."
84 Linlithgow ! Balf. flo.
85 Fife. Balf. flo. edinb.
00 Clyde ? "Landsborough."
01 Cantire. Balfour sp.
02 Isla. Balfour cat.
N.B. This plant apparently is decreasing on our coasts; several of its localities resting only on old records.

57 Coronopus didyma.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.†
3 Devon south ! Briggs cat.†
4 north. Maw cat.
5 Som. south. Melvill.
6 north. Flower sp.
9 Dorset. Clark, jun., sp.
10 Wight. More cat.†
11 Hants south. Macreight sp.†
12 north. Towns. cat.
13 Sussex west. Salmon ms.
14 east. J. L. Warren.
17 *Surrey !*
18 Essex south.
19 north. Varenne ms.†
20 Herts.
21 Middlesex.
31 Hunts. (Job Watson.†)
34 Gloster west ! Thwaites cat.
36 Hereford. Ley rec.
37 Worcester. (E. Lees.)
39 Stafford. Church. Bab. sp.†
41 Glamorgan. Moggridge sp.
42 Brecon. Ley rec.
44 Carmarthen. Motley cat.
45 Pembroke. Bab. cat.
49 Carnarvon.
54 Lincoln north. Fowler rec.
56 Notts. Carrington sp.
58 Chester. Warren cat.†
59 Lanc. south. Dickinson sp.
62 York n. east.
63 s. west. Parsons.*
66 Durham. Storey sp.
67 Northumberland.

68 Cheviotland.
75 Ayr. Landsborough ms.
85 Fife.
N.B. This is an opposite example to the preceding (Crambe); being one of a plant spreading into new localities, and these wide apart. Best established in the Peninsula and South Wales. Supposed to have come originally from America.

58 Coronopus Ruellii.

1 Corn. west! Bailey ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts south. Flower cat.
8 north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east! Roper.
15 Kent east! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
44 Carmarthen. Motley cat.
45 Pembroke. Bab. cat.
46 Cardigan. Purchas ms.
49 Carnarvon. (B. D. Jackson.)
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham. Storey sp.†
67 Northumberland
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Twynam sp.
85 Fife. "Extinct in 1869."
92 Aber. south. Dickie ms.†
93 north. Roy ms.†

94 Banff. "Mr. Wilson."
95 Elgin. Gordon cat.†
00 Clyde-isles. Galt ms.
06 Ross east. Authority?
09 Caithness.* R. Brown cat.
N.B. The scarcity of this weed in Scotland has led to the full enumeration of its ascertained counties.

60 Thlaspi arvense.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.†
11 Hants south. Towns. cat.
12 north! Towns. cat.
13 Sussex west.
14 east. Roper.
15 Kent east. Smith cat.
16 west. Roper.
17 Surrey! Pamplin ms.
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.†
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge?
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
49 Carnarvon. Robinson cat.
51 Flint. Miss Attwood ms.
54 Lincoln north. Bogg cat.
55 Leicester.
56 Notts.
58 Chester.
59 Lanc. south. Tudor sp.†
60 west. Syme sp.
61 York s. east.
62 n. east.
63 s. west. Parsons rec.
64 m. west.
65 n. west.
66 Durham.
67 Northumb. Winch sp.
68 Cheviot. Embleton sp.
71 Man. Forbes cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†
78 Peebles. Grieve.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Balfour cat.
84 Linlithgow. Macnab sp.
85 Fife! Syme sp.
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
00 Clyde-isles. Balfour sp.
06 Ross east! Gordon cat.
07 Suth. east!
09 Caithness. R. Brown cat.
11 Orkney.
N.B. Seldom persistent; often as a casual only.

61 Thlaspi perfoliatum.

23 Oxford. Extinct.
33 Gloster east. Prentice sp.
37 Wor. (E.Lees.) "one place."
[22 38 64 70].

62 Thlaspi alpestre.

6 Som. north. (R. P. Murray.)
41 Glamorgan.
49 Carnarvon.
50 Denbigh. Sansom sp.
57 Derby !
64 York m. west.
65 n. west. Baker sp.
66 Durham.
67 Northumb. Storey sp.
69 Westmoreland.
70 Cumberland !
90 Forfar. Brand sp.
[3 Devon. 23 Oxford.]
N.B. Three segregates thus :
T. sylvestre 66 67 90.
T. virens 57.
T. occitanum 6 49 50 64 65 66.

63 Capsella Bursa.

All the counties, except 42 74 97 108; doubtless really to be found in all.

64 Hutchinsia petræa.

6 Som. north. Christy sp.
16 *Kent west.* Sansom sp.
34 Gloster west. Purchas sp.
36 Hereford. Watkins sp.
39 Stafford.
41 Glamorgan. Moggridge sp.
45 Pembroke. Flower sp.
49 Carnarvon.
50 Denbigh ! J. E. Bowman sp.
57 Derby. Bickham sp.
64 York m. west. Tatham cat.
65 York n. west. Ward sp.
72 Dumfr. (Rev. Mr. Liddell.)

65 Teesdalia nudicaulis.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Trevelyan sp.
7 Wilts north.
9 Dorset. Mansel-Pleydell sp.
11 Hants south !
12 north ! Pamplin ms.
13 Sussex west. Borrer ms.
15 Kent east. Jeffrey.
17 Surrey ! Ellis ms.
18 Essex south.
19 north.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford. (J. Beesley.)
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Bloomfield.
27 Norf. east.
28 west. Notcutt cat.
29 Cambridge. Leefe sp.
30 Bedford.
32 Northton.
37 Worcester. E. Lees sp.
38 Warwick. Bagnall ms.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
47 Montgomery. F. A. Lees.
48 Merioneth ! Price sp.
49 Carnarvon. Robinson cat.
50 Denbigh ! J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester !

59 Lanc. south. Tudor ms.
61 York s. east.
62 n. east.
63 s. west. Denny ms.
64 m. w. F. A. Lees cat.
65 n. west.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
69 Westmoreland. Leefe ms.
70 Cumberland! Baker cat.
75 Ayr. Duncan cat.
77 Lanark. Balfour sp.
78 Peebles.
79 Selkirk. Farquharson cat.
80 Roxburgh. G. Macnab sp.
81 Berwick. Brotherston rec.
83 Edinburgh. Balfour cat.
85 Fife. F. M. Webb rec.
88 Perth mid.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon sp.
96 Easterness. Stables cat.
99 Dunbarton.

66 Iberis amara.

5 Som. south ?
6 north. Collins ms.
8 Wilts south.
9 Dorset. Mansell cat.†
12 Hants north.
14 Sussex east. Roper.
17 Surrey.
20 Herts. Fordham sp.
22 Berks. Henslow sp.
23 Oxford. Godley sp.
24 Bucks. Britten sp.
28 Norf. west. Cooper sp.
29 Camb. Coleman sp.
30 Bedford. I. Brown sp.
(10 19 30 38 39 49 51 52 57 62 64 65 67 69 77 79 80 81 83 84 85; mostly garden escapes, and perhaps some of them not rightly assigned to *I. amara*).

67 Lepidium latifolium.

6 Som. north. Collins ms.
15 Kent east. Berkeley ms.
18 Essex south.
19 north. Syme sp.
25 Suff. east. Notcutt sp.
27 Norf. east. Babington. sp.
28 west. Miss Bell ms.
29 Cambridge. Extinct?
37 Worcester?
41 Glamorgan?
50 Denbigh.
51 Flint. H. Crewe sp.
52 Angl. J. E. Bowman ms.†
58 Chester. Bailey.
60 Lanc. west.
62 York n. east. Leefe sp.
66 Durham. "denizen."
67 Northumb. Storey sp.
68 Cheviot. "denizen."
(3 13 17 55 64 77 80 81 82 85 107; apparently introduced, and only casual in some of these counties, as Leicester and Lanark).

69 Lepidium Smithii.

1 Corn west! Cunnack cat.
2 east. Briggs. cat.
3 Devon south! Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north.
9 Dorset. Pleydell cat.
10 Wight. More cat.†
11 Hants south! Bromf. sp.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Taylor sp.
16 Kent west. Groves rec.

17 Surrey! Twining sp.
18 Essex south? Moxon ms.
21 Middlesex.
22 Berks.
25 Suffolk east.
27 Norfolk east. Cooper sp.
28 west.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
35 Monmouth. Hort ms.
36 Hereford. "Willmott."
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford!
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
42 Bre. (E. Forster.) "hirtum."
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
48 Merioneth. Russell sp.
49 Carnarvon! Babington ms.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
54 Lincoln north. Fowler rec.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees rec.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Storey sp.
67 Northumb. R.B.Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumkerland. Ottley sp.
71 Man. Forbes sp. Webb ms.
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
74 Wigton. Macnab sp.
75 Ayr. Duncan cat. Syme sp.
76 Renfrew. Gourlie sp.
77 Lanark. Balfour sp.
79 Selkirk. Brotherston rec.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour sp.
83 Edinburgh.
84 Linlithgow. Balfour cat.
85 Fife. Hugh Bulfour sp.
86 Stirling. Duthie rec.
87 Perth west. Syme sp.
88 mid.
89 east!
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
96 Easterness. Stables sp.
99 Dunbarton. Hooker sp.
00 Clyde-isles.
03 Ebudes mid. Ross cat.
N.B. Localities for this occasionally confused.

70 Lepidium campestre.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Bell Salter sp.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent east. Smith cat.
16 west.
17 Surrey!
18 Essex south.

19 Essex north. Varenne cat.
20 Herts.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield cat.
26 west.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington flo.†
30 Bedford. Abbot. Extinct ?
31 Hunts. Newbould cat.†
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Melvill cat.
48 Merioneth. Britten.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west. Denny ms.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey.
70 Cumberland. Addison.
71 Man. Forbes cat.
72 Dumfries ?
73 Kirkcudbright. Gray cat.
75 Ayr.
77 Lanark. Hennedy cat.
81 Berwick.
82 Haddington.
83 Edinburgh.
84 Linlithgow! Balfour cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west. Syme cat.
90 Forfar. Gardiner sp.
91 Kincardine.
96 Elgin. Gordon cat.†

71 Lepidium ruderale.

1 Cornwall.
2 east.* Briggs.
3 Devon south.
6 Som. north. Thwaites cat.
9 Dorset. Pleydell cat.†
11 Hants south. Bromf. ms.
13 Sussex w.* J. L. Warren rec.
15 Kent east.
16 west! "G.E. Smith."
17 Surrey.*
18 Essex south.
19 north. Christy sp.
20 Herts.* Blow rec.
21 Midx. Lawrence sp.
25 Suffolk east. Bloomfield.
27 Norf. east. Babington sp.
28 west. Wardale sp.
29 Cambridge. "Henslow!"
34 Gloster west. Purchas sp.
35 Monmouth. Hort sp.
37 Worcester.
41 Glamorgan. Atwood ms.†
44 Carmarthen. Motley ms.†
45 Pembroke.

49 Carnarvon. (J. E. Griffith.)
58 Chester. "casual."
62 York n. east. Baker sp.†
66 Durham. Storey sp.†
67 Northumb. Storey sp.†
80 Roxburgh. "casual."
83 Edinb. D. Douglas sp.
85 Fife. Syme sp.†
N.B. A casual or ballast plant in several of its localities.

72 Cochlearia officinalis.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Keys sp.
4 north. Maw cat.
6 Som. north. Crotch sp.
9 Dorset. Pleydell cat.
10 Wight. "Dr. Tate."
11 Hants south!
15 Kent east. Smith cat.
16 west! Taylor sp.
18 Essex south.
19 north. Varenne ms.
25 Suffolk east. Bloomfield cat.
27 Norfolk east.
28 west.
34 Gloster west.
35 Monmouth. Conway cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Atwood sp.
49 Carnarvon.
50 Denbigh. R. Brown.
51 Flint!
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. F. A. Lees rec.
57 Derby! alpina?
58 Chester!
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 York s. west. F. A. Lees cat.
64 York m. west. alpina?
65 n. west.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westm. Bailey rec.
70 Cumberland.
71 Man. Forbes sp.
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk.* Farquharson cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Dewar sp.
87 Perth west. Syme cat.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
97 Westerness. Ch. Bab. ms.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Ch. Bab. ms.
05 Ross west. (Druce.)
08 Suth. west!
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland.
N.B. Said by Mr. Borrer not to be found on the coast of Sussex. In the inland localities in 38 55 56 79 80 it may be an introduced plant.

72*Cochlearia alpina.
(*C.* "*groenlandica.*")

48 Merioneth. Lees rec.
49 Carnarvon! Babington ms.
64 York m. west.
65 n. west.
66 Durham. Baker sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland! Baker ms.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
87 Perth west. F. M. Webb rec.
88 mid!
89 east!
90 Forfar!
92 Aber. south! Dickie cat.
96 Easterness! Gordon ms.
97 Westerness! Grieve ms.
98 Argyle!
05 Ross west. (Druce.)
09 Caithness. Dick.
11 Orkney?
12 Shetland. Tate sp.
[9 or 10 45 50 71].

72*Cochlearia danica.

1 Corn. west. Greenwood sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw sp.
5 Som. south. Coleman sp.
9 Dorset. Pleydell cat,
10 Wight. More cat.
11 Hants south. Macreight sp.
13 Sussex w. J. L. Warren cat.
15 Kent east. Smith cat.
19 Essex north.
25 Suffolk east. Babington ms.
27 Norf. east. Barnard sp.
28 west.
41 Glamorgan.
44 Carmarthen.
45 Pembroke. Rogers sp.
46 Cardigan. Purchas.
49 Carnarvon! Bloxam ms.
50 Denbigh. Sansom sp.
52 Anglesea.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west.
66 Durham.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland.
70 Cumb. Chambers sp.
71 Man. F. M. Webb ms. 1867.
76 Renfrew. Hennedy cat.
81 Berwick?
83 Edinburgh.
85 Fife.
91 Kincardine.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.
00 Clyde-isles. Hennedy cat.
11 Orkney?
12 Shetland? *alpina?*
N.B. The localities for this and the two preceding are rather confused together, through difficulties in distinguishing three species.

72*Cochlearia anglica.

1 Corn. west.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
6 Som. north. Collins ms.
9 Dorset.
10 Wight. Stratton sp.
11 Hants south. Notcutt cat.
13 Sussex west. Newbould.
15 Kent east. Syme sp.
16 w. (Arthur Bennett.)
18 Essex south.
19 north.

21 Midx. "Warren, 1869."
25 Suff. east. Coleman ms.
27 Norf. east.
28 west. Cooper sp.
29 Cambridge. Babington cat.
34 Gloster west! Stephens sp.
35 Monmouth. Conway cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Gibson ms.
49 Carnarvon. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
58 Chester. Lewis sp.
59 Lanc. south.
60 west!
66 Durham?
67 Northumb. New flo.
68 Cheviotland?
69 Westmoreland. Bailey.
70 Cumberland. Foggitt.
73 Kirkcudbright?
74 Wigton?
77 Lanark?
83 Edinburgh?
95 Elgin?
99 Dunbarton?
03 Ebudes mid?
N.B. An ill-understood species; forms of *C. officinalis* being confused with it. [57].

74 Subularia aquatica.

49 Carnarvon. Butler sp.
50 Denbigh. J. E. Bowman cat.
52 Anglesea.
70 Cumberland. Oliver sp.
72 Dumfries.
87 Perth west. Brand sp.
88 mid. (Pagan.)
89 Perth east. Syme.
90 Forfar.
91 Kincardine. Dickie sp.
92 Aber. south! Hooker sp.
93 north. Dickie flo.
94 Banff. Roy ms. 1870.
96 Easterness.
97 Westerness. Sadler.
99 Dunbarton. Gourlie sp.
03 Ebudes mid. Ross cat.
05 Ross west.
08 Suth. west. Graham sp.
[40 59 72 85].

75 Draba aizoides.

41 Glamorgan. Moggridge.
[5. "Mr. Talbot, an error"].

76 Drabā rupestris.

88 Mid Perth!
96 Easterness. "Cairngorm."
98 Argyle? or Dunbarton?
08 Suth. west. "Mr. Macnab."
[11 64 90 94 111].

77 Draba incana.

39 Stafford? Derby only?
49 Carnarvon.
57 Derby. Wardale sp.
62 York n. east.
64 m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham.
69 Westmoreland!
70 Cumberland.
88 Mid Perth!
90 Forfar.
92 Aber. south. Dickie cat.
94 Banff.
96 Easterness. Cairngorm.
97 Westerness. Sadler.
98 Argyle. F. M. Webb.
02 Eb. south. Balfour sp.
04 north. Lawson cat.
06 Ross east. Stables sp.
07 Suth. east.

08 Suth. west!
09 Caithness. Dick.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
[11 South Hants].

78 Draba muralis.

6 Som. north. Flower sp.
39 Stafford.
47 Montg. J. E. Bowm. sp.
48 Merioneth. Miss Barnard.
57 Derby. J. E. Bowman sp.
64 York m. west. Tatham sp.
65 n. west. Ward sp.
69 Westmoreland?
(1 21 30 34 62 77 80 83 90 100).

79 Draba verna.

Counties all, except 35 42 46 60 74 97 98 101 102 103 104 105 107 110 112; no doubt simply overlooked in most of these counties; and whether the typical form occurs in all of the others is not ascertained.

79*D. brachycarpa. Segr.

2 Corn. east. Briggs sp.
3 Devon south. Briggs sp.
5 Som. south. Gifford sp.
9 Dorset. Pleydell ms.
10 Wight. More sp.
14 Sussex east. Roper.
17 Surrey!
19 Essex north. Briggs sp.
20 Herts. R. A. Pryor.
23 Oxford. Dyer. King sp.
38 Warwick.
54 Linc. north. Lees rec.
57 Derby. C. Bailey sp.
58 Chester. New Lpl. flo.
62 York n. east. Baker sp.
63 s. west. Carr rec.
64 m. w. T. J. Foggitt sp.
65 n. west. F. A. Lees sp.
66 Durham. Lees rec.
67 Northumb. New flo.
69 Westm. E. Hodgson, sp.
85 Fife. Thirsk Report, 1868.
N.B. Doubtless it will be found in most other counties; but intermediate forms occur; one such from Orkney, not easy to name positively.

79*Draba inflata. Segr.

88 Mid. Perth. Syme sp.
N.B. The Breadalbane hills, Perthshire, seem still to remain the only certain habitat for this apparently distinct species. Something approximating to it has occurred in the Isle of Wight, Warwickshire, and North-east Yorkshire; but in each case referred to *brachycarpa*.

83 Dentaria bulbifera.

13 Sussex west.
14 east.
16 Kent west.
17 Surrey.
20 Herts.
21 Midx. H. Kingsley sp.
24 Bucks. Britten sp.
39 Stafford.
75 Ayr. James Wilson sp.

84 Cardamine amara.

7 Wilts north. Flower.
8 south?
9 Dorset.
11 Hants south. Notcutt cat.

13 Sussex west. Borrer ms.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Midx. Harris sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norf. east. Stock sp.
28 west. Miss Bell sp.
29 Camb. Bab. ms. Fryer.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east
34 west?
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman.
51 Flint. Robinson cat.
55 Leicester. Bloxam cat.
56 Notts. Howitt.
57 Derby. Howitt cat.
58 Chester!
59 Lanc. south. Goodlad.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Storey.
67 Northumberland.
68 Cheviot. Miss Pringle sp.
69 Westmoreland.
70 Cumberland!
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
83 Edinburgh! Balfour sp.
85 Fife, C. Syme sp.
86 Stirling. Balfour.
87 Perth west. Syme sp.
88 mid.
90 Forfar. Croall sp.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.†
96 Easterness. Falconer.
99 Dumbarton?
00 Clyde-isles. Hennedy cat.

[2 East Cornwall? 4 North Devon? These must be held uncertain till verified; although there would seem nothing unlikely in the habitats].

85 Cardamine pratensis.

Counties all, except 74 97 107; but doubtless actually growing in these counties also.

86 Cardamine hirsuta.

Counties all, except 42 45 48 53 74 97 98 103 105 107 108, in all of which it may be expected to occur. The *C. eu-hirsuta*, as distinguished from *C. sylvatica*, may be as generally distributed, although hitherto reported separately in scarcely half of the counties, from Cornwall to Orkney and Shetland.

86 Cardamine sylvatica.

(*C. flexuosa*, With.)

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Goulding sp.
4 north. Dyer.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Townsend.
12 north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Roper.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex! Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
27 Norfolk east?
30 Bedford?
33 Gloster east?
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford.
37 Worcester. Lees sp.
38 Warwick. Kirk cat.
39 Stafford! Babington ms.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke.
46 Cardigan. Purchas ms.
47 Montgomery, Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. (B. D. Jackson.)
53 Linc. south. E. N. Brown.
55 Leicester. Ch. Bab. sp.
58 Chester. J. L. Warren cat.
59 Lanc. south! F. M. Webb cat.
61 York s. east. Parsons rec.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey ms.
67 Northumb. Storey sp.
68 Cheviot. Richardson sp.
69 Westmoreland!
70 Cumberland! Baker cat.
74 Wigton. Balfour sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow. Syme sp.
85 Fife. Syme cat.
87 Perth west. Syme cat.
88 mid?
89 east!
90 Forfar?
91 Kincardine. Syme cat.
95 Elgin. "Dr. Innes."
96 Easterness?
99 Dunbarton?
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce.)
09 Caithness. Grant cat.
10 Hebrides.
11 Orkney. H. Johnston.

N.B. The ? affixed to the names of counties indicates that "*C. hirsuta*" has been described as growing by ditches or wet places; thus leading to a supposition that *C. sylvatica* may be intended or included.

87 Cardamine impatiens.

2 Corn. east? "Crouch."
3 Devon south. "Roberts" sp.
4 Devon north?
6 Som. north. Thwaites cat.
13 Sussex west. Beeby.
16 Kent west. Beeby.
17 Surrey! Salmon sp.
34 Gloster west. Watkins sp.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Bloxam sp.
39 Stafford. (Dr. Fraser.)
40 Salop.
41 Glamorgan.
47 Montgy. J.E.Bowman ms.
48 Merioneth. Britten.
50 Denbigh. J.E.Bowman sp.
51 Flint. R. Brown.
57 Derby! Painter.
60 Lanc. west. Melvill.
64 York m. west. Tatham sp.
65 n. west.
69 Westmoreland.
75 Ayr?

N.B. The *C. sylvatica* has been frequently misreported as if *C. impatiens*, thus throwing much doubt on several of the counties; among which those enumerated below are mostly errors thus occasioned:— [7 21 55 58 59 61 62 70 77 83 97 111; also 2 and 4?]

88 Arabis thaliana.

Counties all, except 1 35 42 45 46 48 53 72 73 74 97 98 101 102 103 105 107 108 110 112. There can be little doubt that it could be found in all of these counties, if sought early in the season, before it becomes hidden by more robust plants. And botanists accustomed to name it *Sisymbrium thalianum* may omit to mark it under *Arabis* in a printed catalogue.

89 Arabis petræa.

48 Merioneth? "Lhwyd."
49 Carnarvon. Bab. sp.
70 Cumberland? "Wood."
88 Perth mid. Light. scot.
91 Kincardine. "bed of Dee."
92 Aber. south! Dickie sp.
96 Easterness. "Cairngorm."
98 Argyle. F. M. Webb rec.
03 Mull. "Maughan."
04 Skye. Lawson cat.
08 Suth. west. Graham sp.
10 Hebrides. "Harris."
12 Shetland. Tate sp.
South Wales. Bab. man.
[3 40 57 62 65].

90 Arabis stricta.

6 Som. north. Thwaites cat.
34 Gloster west. Thwaites sp.
[70 Cumberland].

91 Arabis ciliata.
var. *hispida*.

45 Pembroke. Bab. man.

N.B. The remarks on this plant in the third edition of 'English Botany' would suggest that it may occur in other counties, but overlooked as a form of *Arabis hirsuta*. G. Don reported an "*Arabis ciliata*" from

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the hills of Forfarshire.

92 Arabis hirsuta.

1 Corn. west. "north coast."
2 east.
3 Devon south! Hore sp.
5 Som. south. F.A.Lees rec.
6 north! Butler sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell sp.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex w. J.L.Warren sp.
14 east. Roper.
15 Kent east. Syme sp.
17 Surrey! E. Wood ms.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west.
27 Norf. east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
31 Hunts. Fryer.
32 Northton.
33 Gloster east. Buckman sp.
34 west. Thwaites cat.
35 Monmouth. Babington ms.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. (Bagnall.)
39 Stafford.
40 Salop. Leighton ms.
41 Glamorgan. F. A. Lees sp.
42 Brecon. "E. Forster ms."
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan.
47 Montgomery. Melvill cat.
48 Merioneth. Ley cat.
49 Carnarvon. Winch ms.
50 Denbigh. J.E.Bowman ms.
51 Flint. Robinson cat.
52 Anglesea!
53 Lincoln south. Bloxam sp.
54 north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby! J. E. Bowman ms.
58 Chester! J. L. Warren cat.
59 Lanc. south.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s.west. F.A.Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Winch sp.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland!
72 Dumfries. Hutton sp.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
84 Linlithgow. Ed. cat. "v.c."
85 Fife. Syme cat.
86 Stirling.
87 Perth west. Syme cat.
88 mid. Miller cat.
89 east!
90 Forfar!
91 Kincardine.
92 Aber. south!
94 Banff.
95 Elgin. Gordon sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour sp.
03 mid. Ross cat.
04 north. Ch. Bab. ms.
06 Ross east. Gordon cat.

08 Suth. west. "garden wall."
09 Caithness. R. Brown cat. [20].

94 Turritis glabra.
(*Arabis perfoliata*).

6 Som. north ?
7 Wilts north. Flower cat.
12 Hants north. Pamplin ms.
16 Kent west. Sandys sp.
17 Surrey ! Ellis ms.
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman sp.
21 Middlesex !
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norf. east.
28 west.
33 or 34 Gloster...? Wintle ms.
37 Worcester. E. Lees sp.
38 Warwick. Leefe sp.
39 Stafford.
40 Salop. Leighton cat.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Church. Bab. sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb.
70 Cumb. Dickenson sp.
77 Lanark.*
80 Roxburgh. Brotherston rec.
87 Perth west. Dewar sp.
90 Forfar. Error ?
99 Dunbarton.*
N.B. Doubtfully native in its few Scottish counties. [9].

95 Barbarea vulgaris.

Counties all, except 48 53 60 74 89 97 98 101 to 112. In North Britain it is rare and doubtfully indigenous; beyond the line of the Caledonian canal it is absent from all the lists except those for West Ross and Caithness. See the 'Comp. Cyb. Brit.' for the distribution of its segregates.

96 Barbarea stricta. Segr.

17 Surrey. Baker sp.
21 Middlesex. (Baker.)
53 Linc. south. Fowler rec.
54 north. Lees rec.
58 Chester. Webb & Newbould.
62 York n. east. (Baker.)
86 Stirling.* Horn rec.

98 Nasturtium officinale.

Counties all, except 42 74 97 98 105 109 110; in all of which it may be held very likely to occur.

99 Nasturtium terrestre.
(*N. palustre*).

2 Corn. east.
3 Devon south ! Briggs cat.†
5 Som. south. Melvill.
6 north. Thwaites cat.
7 Wilts north. Preston ms.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Towns. cat.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east ! J. L. Warren.

16 Kent west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norf. east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Ley rec.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Denny ms.
64 m. w. F. A. Lees cat.
65 n. west. Baker sp.
66 Durham. Norman cat.
67 Northmb. R. B. Bowman sp.
68 Cheviot. Embleton cat.
70 Cumberland. Oliver sp.
72 Dumfries. Gray cat.
73 Kirkcud. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour sp.
85 Fife. Syme sp.
87 Perth west.
89 east. Syme.
90 Forfar.
98 Argyle?
99 Dumbarton. J. J. Foggitt.
00 Clyde-isles. Hennedy cat.
[92 South Aberdeen?]

100 Nasturtium sylvestre.

3 Devon south. Goulding sp.
5 Som. south. Melvill.
9 Dorset? Salter.
12 Hants north. Towns. cat.
14 Sussex east. J. L. Warren.
15 Kent east. Baker.
17 Surrey! Salmon sp.
18 Essex south.
19 north.
20 Herts.
21 Middlesex!
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Skepper cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts!
32 Northton!
33 Gloster east.
34 west. Thwaites sp.

35 Monmouth. Ch. Bab. sp.
36 Hereford.
37 Worcester. Ch. Bab. sp.
38 Warwick?
39 Stafford.
40 Salop. Butler sp.
41 Glamorgan.
44 Carmarthen.
51 Flint. Robinson cat.
53 Lincoln south. Fowler rec.
54 north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby.
58 Chester.
59 Lanc. south.
60 west. Simpson sp.
61 York s. east.
62 n. east.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Baker sp.
66 Durham. Storey sp.
67 North. R. B. Bowman sp.
68 Cheviotland.
69 Westmoreland. Foggitt.
72 Dumfries?
81 Berwick.
83 Edinburgh. Brand sp.
85 Fife. Syme sp.† Balf. sp.
89 Perth east. Syme sp. "var: siliquis brevioribus."
[1 or 2 6 70].

101 Nasturtium amphibium
(*Armoracia amphibia*).

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Mansel cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
17 Surrey!
18 Essex south. Varenne ms.
19 Essex north. Varenne cat.
20 Herts.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bloomfield.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east.
34 west. Thwaites sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop.
53 Lincoln south!
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Parsons.
65 n. west. "frequent."
66 Durham. "ballast hills."
[3 72 77 83 85 87 94].

102 Sisymbrium officinale.

Counties all, except 74 97 104 105 108 112; in all of which it may be expected, unless 112 Shetland should be a real exception.

103 Sisymbrium Irio.

N.B. So uncertain in its appearance, this may class more appropriately with the casuals than with the true constituents of our permanent flora.

104 Sisymbrium Sophia.

2 Cornwall east ?
3 Devon south ?
6 Som. north. Withers, 1850.
8 Wilts south.
9 Dorset. Pleydell cat.
13 Sussex west? "Sussex"; B.
14 east.† J.L. Warren.
15 Kent east. G.E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Midx. casual only ?
22 Berks.
23 Oxford. extinct ?
25 Suff. east. Purchas ms.
26 west. Bloomfield.
27 Norf. east. Cooper sp.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northton. Blow rec.
33 Gloster east. Prentice cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Bidwell sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon.
50 Denbigh. J.E. Bowman cat.
51 Flint !
52 Anglesea.
53 Lincoln south !
54 north !
55 Leicester. Ch. Bab. sp.
56 Notts.
58 Chester ! J.L. Warren cat.
59 Lanc. s. F.M. Webb. cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F.A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Hancock sp.
67 Northmb. R.B. Bowman sp.
68 Cheviot. Embleton cat.
77 Lanark ?
80 Roxburgh† Brotherston rec.
81 Berwick.
82 Haddington.
83 Edinburgh. Maughan sp.
85 Fife.
90 Forfar.
91 Kincardine.
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
06 Ross. Gordon cat.
09 Caithness. R. Brown cat.*
N.B. Somewhat irregular in its appearance in recorded localities; ranging in places from a casual to a fairly indigenous plant.

106 Erys. cheiranthoides.

2 Corn. east. Cunnack cat.†
3 Devon south. Briggs cat.†
5 Som. south. Melvill.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.†
12 Hants north. Towns. cat.
13 Sussex west.
14 east.

15 Kent east. Bossey sp.
16 west!
17 Surrey! Rev. E. Wood ms.
18 Essex south.
19 north. Varenne ms.
20 Herts. Fordham sp.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Skepper cat.
27 Norf. east. Paget sp.
28 west. Notcutt sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.* Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. "Wilmott ms."
37 Worcester. (E. Lees.)
38 Warwick. Mrs. Russell.
39 Stafford.
40 Salop.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
N.B. If not an aboriginal native of England, it has become so well established and so frequent in some of the southern counties as to stand intermediately between the colonists and natives. In Mid and North Britain, on the contrary, it seems to be scarcely better than a casual. (49 50 53 54 55 to 60 62 63 65 66 67 71 80 81 84 85 95 103).

107 Erysimum Alliaria.

Counties all, except 42 60 72 74 78 97 98 101 to 105 107 to 112. A recognised native from the south coast to the borders of the Grampian mountains. Northward of latitude 56–57, west and east, some of the local lists mark it as a plant probably introduced. It is one among many other such examples, of a species abundant in England, and shading off to the category of a "rare plant" in North Britain. It is to be regretted that our technical arrangements should place this plant under a genus, to the other species of which it is so dissimilar.

110 Matthiola incana.

10 Wight. Bromfield sp.
14 Sussex east. "Extinct."
45 Pembroke. Error?
N.B. In Mr. A. G. More's catalogue of Vectian plants this is marked as one uncertainly indigenous; and his judgment on conflicting views about nativity is less one-sided than that of Dr. Bromfield constantly showed itself to be.

111 Matthiola sinuata.

4 Devon north. Maw sp.
41 Glamorgan.
45 Pembroke. Babington cat.
48 Merioneth. Baker sp.
49 Carnarvon.
51 Flint.
52 Anglesea.
N.B. This appears to have been found at remote dates in Cornwall, Dorset, and

Sussex; has it been seen in those counties within the past half century?

113 Brassica oleracea.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Henfrey sp.
6 Som. north. Collins ms.
9 Dorset. Pleydell cat.
10 Wight. More sp.†
15 Kent east!
41 Glamorgan?
45 Pembroke.
48 Merioneth?
49 Carnarvon.

N.B. If this cabbage were not so liable to distrust in most of its alleged localities, as a probable escape from cultivation, it might perhaps be accepted as native on the cliffs of Kent, the Peninsula, and South Wales. Dr. Tate wrote in 1871, "truly native" in South Devon. (18 27 62 66 67 69 75 81 83 85 86 100).

114 Brassica campestris.
B. Rapa.
B. Napus.

The exact application of these names is still so unsettled, and the records of localities so confused through misnomers and uncertainties as to the real wildness of the things intended by the variously applied names, that no real usefulness could arise from a merely condensed enumeration of reported counties. The plant now so plentiful along the Thames is apparently a wild state of the Turnip, whether named *Rapa* or *campestris*. To record it as *Napus* was at first simply a misnomer through not seeing the plant at a sufficiently early stage of its growth. Uninquiring repetitions of error cannot amend or confirm the original error itself.

116 Sinapis arvensis.

Counties all, except 74 97; in all of which it might be assumed to occur.

117 Sinapis alba.

1 Corn. west. Cunnack cat.
3 Devon south. Briggs cat.†
4 north. Briggs.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts south. Flower cat.
8 north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.
12 north. Townsend.
13 Sussex west! Borrer cat.
14 east!
15 Kent east! G. E. Smith cat.
16 west. Roper.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.

27 Norfolk e. C. C. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Ley. rec.
49 Carnarvon!
50 Denbigh. Stratton ms.
51 Flint. Robinson cat.
52 Anglesea.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.† F. M. Webb.
60 west. Linton cat.
62 York n. east. Baker cat.
63 s. west. Lees cat.†
64 m. west.
65 n. west.
66 Durham. "colonist."
67 Northumb. "colonist."
68 Cheviot. "colonist."
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick. "common."
82 Haddington. Balfour cat.
83 Edinburgh. I.B. Balfour ms.
84 Linlithgow. Balfour cat.
85 Fife. Balfour sp.
87 Perth west. Syme cat.†
88 mid. (F. B. White).
89 east!†
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
01 Cantire. Balfour cat.
02 Ebudes south. Balfour cat.
04 north. Lawson cat.
05 Ross west. (Druce cat.)
06 east. Gordon cat.†
10 Hebrides.

118 Sinapis nigra.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south! Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Fox sp.
10 Wight! More cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. G.E. Smith cat.
15 Kent east.
16 west.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Shepherd cat.
27 Norf. east. C. C. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould ms.†
32 Northton.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.†

39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
45 Pembroke. Babington cat.
48 Merioneth. (W. W. Reeves).
49 Carnarvon. (Painter.)
50 Denbigh.
51 Flint. (Parsons rec.).
52 Anglesea.
53 Lincoln south ! †
54 north !
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Syme ms.
62 York n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west.
66 Durham. Norman cat.
67 Northumb. "colonist."
68 Cheviot. Embleton cat.
[72 77 81 83 85 95].

120 Sinapis tenuifolia.

1 Corn. west.
2 east.
3 Devon south. Briggs cat.†
6 Som. north. Crotch sp.
9 Dorset. Pleydell ms.†
11 Hants south. Towns. cat.
13 Sussex west !
15 Kent east ! Beesley sp.
16 west. Syme.
17 Surrey ! Newman.
18 Essex south ? Varenne ms.
19 north. Varenne ms.
20 Herts.
21 Middlesex. Newman.
22 Berks. Hurst. ms.
25 Suffolk east. Bloomfield cat.
27 Norfolk east.
28 west.
32 Northton. Druce rec.
33 Gloster east ?
34 west. Thwaites sp.
36 Hereford. extinct ?
37 Worcester. (E. Lees.)
38 Warwick.
39 Stafford !
40 Salop. Shawe sp.
41 Glamorgan. Flower sp.
44 Carmarthen. Motley cat.
45 Pembroke. Bailey rec.
48 Merioneth. Mrs. Russell sp.
49 Carnarvon !
51 Flint. (Parsons rec).
58 Chester ! Bowman sp.
60 Lanc. west. Linton cat.
62 York n. east. Baker cat.†
63 s. w. F. A. Lees cat.
65 n. west.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
70 Cumberland.
[10 14 75 77 81 85].

121 Sinapis muralis.

1 Corn. west.
2 east. Briggs cat.†
3 Devon south. Thwaites cat.
4 north ! Rogers rec.†
6 Som. north ! Thwaites cat.
9 Dorset.
10 Wight. "introduced."
11 Hants south. R. A. Pryor.
13 Sussex west. R. A. Pryor.
14 east. Roper.
15 Kent east ! G. E. Smith cat.
16 west. Syme.
17 Surrey !
18 Essex south. Varenne ms.
19 north. Varenne sp.
20 Herts.* R. A. Pryor.
21 Middlesex !
22 Berks.
24 Bucks.
25 Suffolk east. Stock sp.

26 Suffolk west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
33 Gloster east. Prentice cat.
34 west! Butler sp.
37 Worcester. (E. Lees).
38 Warwick. Bromwich.
40 Salop. Leighton cat. co.†
41 Glamorgan. Purchas sp.
44 Carmarthen. Motley cat.
51 Flint. R. Brown.†
58 Chester.
59 Lanc. s. F. M. Webb cat.†
62 York n. east. Baker sp.†
63 s. west.†
66 Durh. Hort sp.† "ballast."
67 *Northumb.* Storey sp.†
70 *Cumberland.*
80 Roxburgh. Brotherston.
85 *Fife.* Brand.† Balf. cat.† [75 86].

N.B. The habitats of this and the preceding species are confused in our recorded localities for the two plants.

122 Sinapis monensis.

41 Glamorgan. Moggridge sp.
49 Carnarvon.
52 Anglesea.
58 Chester! Fordham sp.
59 Lanc. south! Tudor sp.
69 Westmoreland?
70 Cumberland. Oliver sp.
71 Man. Jowett sp.
72 Dumfries.
73 Kirkcudbright.
74 Wigton. Balfour sp.
75 Ayr. Prof. Balfour sp.
76 Renfrew. Gourlie sp.
00 Clyde-isles. Hooker sp.
01 Cantire.
(2 11 17 21 37 60 64 66 82 90 104, casual or doubtful; including *S. Cheiranthus*).

123 Raph. Raphanistrum.

Counties all, except 42 46 47 60 74 86 97 99 104 105 107; likely to occur in all.

124 Raphanus maritimus.

1 Corn. west! Cunnack cat.
2 east. Payne sp.
3 Devon south. Tate ms.
6 Som. north. Collins ms.
9 Dorset. Pleydell ms.
10 Wight. More cat.
14 Sussex east. Trevelyan ms.
15 Kent east. Hiern.
44 Carmarthen. Jones rec.
45 Pembr. J. E. Bowman ms.
48 Merion. J. E. Bowman ms.
60 Lanc. west. Syme sp.
61 York s. east?
66 *Durham.* "ballast hills."
70 Cumberland. "Benson."
73 Kirkcudbright. Gray sp.
74 Wigton. Macnab sp.
75 Ayr.
76 Renfrew. Hennedy cat.
98 Argyle. Gourlie sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
[25 27 112 Bressa; Edm. flo.].

125 Reseda Luteola.

Counties all, except 73 74 78 93 97 to 100 102 to 105 107 to 112. Dubiously indigenous in Moray and westward of the Caledonian Canal. [112.]

126 Reseda lutea.

1 Corn. west. Cunnack
2 east. Briggs cat.
3 Devon south. Briggs cat.†
4 north. Maw cat.
6 Som. north!
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north! Townsend.
13 Sussex west. Martin sp.
14 east! Roper.
15 Kent east! G. E. Smith cat.
16 west!
17 Surrey! Ellis sp.
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Ch. Bab. ms.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
39 Stafford.
40 Salop. one locality.
41 Glamorgan. Collins ms.
42 Carmarthen. Motley cat.
48 Merioneth. (E. Straker).
53 Linc. south! Bloxam sp.
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt sp.
58 Chester! Hunt.
61 York s. east.
62 n. east. Baker cat.
63 York s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Norman cat.
67 *Northumberland.*
68 *Cheviotland.* Tate cat.

(49 51 59 75 77 81 to 85 89 90 92 95 96). Dr. Boswell Syme holds it "apparently truly native" in Fife, and Dr. F. B. White in East Perth. Almost all other botanists of Scotland, whose opinion can be of any authority in the matter, mark it as an introduced plant in the Scottish counties, as also in the most northerly counties of England.

128 Helianthemum vulgare.

3 Devon south.
5 Som. south. F. A. Lees.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex west! Borrer cat.
14 east. Roper.
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey! Wood ms.
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex. Hind.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Skepper.
26 west. Skepper.
27 Norf. east. Cooper sp.

28 Norf. west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Bagnall ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley.
44 Carmarthen. Motley cat.
45 Pembroke. Bab. cat.
46 Cardigan.
47 Montgom. J.E. Bowman ms.
49 Carnarvon. Winch ms.
50 Denbigh. J.E. Bowman cat.
51 Flint. J. E. Bowman ms.
52 Anglesea.
53 Linc. south. Bloxam ms.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
59 Lanc. south. Chadwick sp.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n.w. R.B. Bowman sp.
66 Durham. Storey sp.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
78 Peebles. Grieve.
79 Selkirk. Farquharson.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
00 Clyde isles. Hennedy cat.
06 Ross east. Gordon cat.

129 Helianth. polifolium.

3 Devon south. G. Lloyd sp.
6 Som. north. Trevelyan sp.
[34 Glouc. 37 Worc.].

130 Helianth. canum.

41 Glamorgan.
49 Carnarvon. Hooker sp.
50 Denbigh.
51 Flint. J. E. Bowman sp.
52 Anglesea.
64 York m. west. F. A. Lees rec.
65 n. west. Baker sp.
69 Westmoreland!
70 Cumberland?
[1 34 39].

131 Helianth. Breweri.

52 Anglesea. Ball sp.

132 Viola palustris.

Counties all, except 19 20 24 26 29 31 32 33 42 74 99; in most of which doubtless it is to be found if sought.

133 Viola odorata.

1 Corn. west. Cunnack cat.†
2 east. Briggs cat.*
3 Devon south! Briggs cat.
4 north! *
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts south. Flower cat.
8 north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.†
16 west.
17 Surrey! Newman ms.
18 Essex south.
19 north. Gibson ms.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Coleman ms.
26 west. Henslow ms.
27 Norf. east. Babington.
28 west. Notcutt cat.
29 Cambridge. Henslow ms.
30 Bedford. Hillhouse.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. J. Hooker ms.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Melvill cat.
49 Carn. Robin. cat. not wild.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robin. cat. not wild.
53 Lincoln south! †
54 north! Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.*
59 Lanc. s. F. M. Webb cat.†
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. "native."
67 Northumb. New flora.*
68 Cheviotland. New flora.*
69 Westmoreland! †
70 Cumberland. Baker cat.†
71 Man. Forbes cat.†
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†
80 Roxburgh. Brotherston.†
81 Berwick. Border flora.*
82 Haddington. Balf. flo.
83 Edinburgh! * Balf. cat.†
85 Fife. Syme.* Balf. flo.
86 Stirling.
87 Perth west.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Gard. flora.†
[111 Orkney; Lowe's list].

N.B. In the above enumeration of counties some variation has been made from the usual plan. All the counties are enumerated by name, although the Violet may have been reported in them simply as an introduced plant. The * is here brought into use to distinguish counties in which the

Violet is considered to be certainly or very probably introduced. The † indicates a less positive opinion against its nativity. Seen by myself in many counties. Surrey and North Lincoln are the only two in which I could look upon it as truly native.

134 Viola hirta.

1 Corn. west. Miss Warren sp.
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Borrer ms.
14 east. Roper cat.
15 Kent east! G. E. Smith cat.
16 west!
17 Surrey! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suffolk west. Skepper.
27 Norfolk east.
28 west.
29 Cambridge. Hanbury sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
47 Montgom. J.E. Bowman ms.
49 Carnarvon! Winch ms.
50 Denbigh. J.E. Bowman ms.
51 Flint. R. Brown.
52 Anglesea!
53 Linc. south! Bloxam ms.
54 north!
55 Leicester.
56 Notts.
57 Derby! J. E. Bowman sp.
59 Lanc. south. Dugdale sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. R.B.Bowman sp.
68 Cheviot. Embleton sp.
69 Westmoreland!
72 Dumfries. "frequent."
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Brand sp.
83 Edinburgh! Balfour cat.
85 Fife! Syme cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Syme "sp."
[58 Chester; Dick. Lp. flo.].

134*Viola permixta, Jord.

3 Devon south. Briggs sp.
11 Hants south. Groves rec.
12 north.
14 Sussex east. Roper.

17 Surrey. H. Groves rec.
19 Essex. Blow rec.
20 Herts. Blow rec.
36 Hereford. Ley rec.

135 Viola sylvatica.
(*V. canina*, Sm.)

Counties all, except 74; in all which doubtless it occurs. This distribution may be taken to represent that of the more usual segregate, *Riviniana*.

135*V. Reichenbachiana.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
Somerset... ?
7 Wilts north. Preston ms.
8 south ?
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Syme ms.
14 east. Roper.
17 Surrey!
19 Essex north. Varenne.
20 Hertford. Blow.
21 Middlesex ?
22 Berks. Britten cat.
23 Oxford. (Druce rec.).
24 Bucks. Britten cat.
29 Cambridge. Babington sp.
30 Bedford. Blow rec.
32 Northton. Druce rec.
33 Gloster east.
34 west. Ley rec.
35 Monmouth. Ley rec.
37 Worcester. Bagnall.
38 Warwick. Kirk sp.
50 Denbigh. Stratton ms.
54 Lincoln north. Fowler rec.
58 Chester. Robinson sp.
60 Lanc. w. (F. A. Lees rec.).
62 York n. east. Baker sp.
63 s. west. F. A. Lees rec.
64 m. west. Foggitt rec.
66 Durham.
N.B. Probably will be found in many other counties.

135*Viola arenaria.

66 Durham.
69 Westm. Backhouse ms.

135*Viola canina, Bab.
(*V. flavicornis*, Sm.)

1 Corn. west. Ralfs sp.
2 east. Briggs cat.
3 Devon south. Parfitt sp.
4 north!
5 Som. south. Collins ms.
6 north. Trevelyan sp.
7 Wilts north.
8 south. Rogers.
9 Dorset. Pleydell sp.
10 Wight. More sp.
11 Hants south! Bromf. sp.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east! Coleman cat.
15 Kent east. Smith cat.
16 west. Stevens sp.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex.
22 Berks! Hurst ms.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. "Borrer."
27 Norfolk east. Paget sp.
28 west. Notcutt cat.
29 Cambridge. Douglas sp.

31 Hunts!
34 Gloster west.
36 Hereford. Purchas sp.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford. Douglas sp.
40 Salop.
41 Glamorgan. "*arenaria.*"
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth. Bailey rec.
52 Anglesea. Babington.
53 Lincoln south!
north. Fowler rec.
55 Leicester. Coleman cat.
58 Chester. Brent sp.
59 Lanc. south. Sansom sp.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
69 Westmoreland!
70 Cumberland! Oliver sp.
71 Man. Forbes sp.
76 Renfrew. Galt ms.
77 Lanark. Galt ms.
78 Peebles. Maughan sp.
82 Haddington. Balfour cat.
83 Edinburgh! Tyacke sp.
84 Linlithgow.
85 Fife. Lawson ms.
86 Stirling. Galt ms.
87 Perth west.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Gardiner sp.
91 Kincardine.
92 Aber. south! Dickie cat.
94 Banff.
00 Clyde-isles. Hennedy cat.
09 Caithness. R. Brown cat.

N.B. This violet and the '*sylvatica*' have been so much confused together under the common name of '*canina*,' that the exact severance of their localities, as recorded in books, is now impossible. Perhaps the present species will be found as widely diffused as is the '*sylvatica*,' although certainly less frequent. Often confused with the distinct '*lactea*,' through looking to the shape of leaf, instead of the flowers.

135 Viola lactea.

1 Corn. west. Cunnack sp.
2 east. Briggs. sp.
3 Devon south. Briggs sp.
10 Wight. Stratton sp.
11 Hants south! Bennett sp.
12 north. J. L. Warren.
14 Sussex east. Carr sp.
16 Kent west. More sp.
22 Berks!
34 Gloster west. Ley rec.
37 Worcester. (E. Lees).
63 York s. west. Parsons rec.

[8 9 10 27 29 31 50 58 78, all or mostly errors; no specimens have been seen by me from any of these counties.]

135 Viola stagnina.

29 Cambridge. Henslow sp.
31 Hunts. "Babington."
53 Lincoln. Nicholson sp.

[1 2 63; confused with '*lactea*' in these counties.]

136 Viola tricolor.
V. arvensis.

Counties all except 42 74 97

105 107, under one or other of the two names. *V. arvensis* is reported from 1 to 112 inclusively, but with several of the intervening counties still in blank. The plant of arable lands has flowers ranging from the apetalous state to that with large party-coloured petals full twice the length of the calyx; and this so gradually that any hard line of distinction becomes impossible. The plant of untilled lands, with yellow or party-coloured flowers and sub-perennial root, might possibly be kept apart as "*eu-tricolor*." But that is not the distinction made by botanists in their applications of the two names; so that "*eu-tricolor*" of some collectors is "*arvensis*" of other botanists, and *vice versâ*.

136 (137) Viola Curtisii.

1 Cornwall west? Ralfs sp.
3 Devon south. Rogers.
4 north! Maw sp.
44 Carmarthen. Motley cat
48 Merioneth. Bailey rec.
52 Anglesea. Babington ms.
58 Chester! Sansom sp.
59 Lanc. south. F.M. Webb cat.
60 Lanc. west. Melville.
75 Ayr. Galt ms. 1870.
00 Cumbrae. Galt ms.
00 Arran. Horn rec.

136 (137) Viola lutea.

3 Devon south?
35 Monmouth. Conway cat.
36 Hereford. Miss Bell sp.
39 Stafford. Bloxam ms.
40 Salop. E. Lees sp.
41 Glamorgan.
42 Brecon. D. Turner ms.
43 Radnor. Atwood ms.
44 Carmarthen.
45 Pembroke. Babington sp.
46 Cardigan. Atwood sp.
47 Montgomery.
48 Merioneth. Britten.
49 Carnarvon.
50 Denbigh!
51 Flint.
56 Notts.
57 Derby!
58 Chester.
59 Lanc. south?
60 west. Linton cat.
62 York n. east. Baker sp.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west.
66 Durham. Leefe sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland. Baker cat.
71 Man.
62 Dumfries.
73 Kirkcudbright.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Grieve.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddinton.
83 Edinburgh! Syme cat.
84 Linlithgow. Balfour cat.
85 Fife! Syme cat.
86 Stirling. Tyacke sp.
87 Perth west. Syme cat.
88 mid! Miller cat
89 east!

90 Forfar!
92 Aber. south. Dickie cat.
94 Banff.
96 Easterness!
97 Westerness!
99 Dunbarton. Ch. Bab. ms.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Islay. Balfour cat.
06 Ross east. Gordon cat.
10 Hebrides.
[1].

138 Drosera rotundifolia.

Counties all, except 7 33 34 74 84 103 107; in some of these doubtless seen by myself in years long past. Extinct in 32.

138*Drosera obovata.

92 Aberdeen south.
03 Ebudes mid.

139 Drosera intermedia.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north?
6 Som. north. Collins ms.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
14 Sussex east. Coleman cat.
17 Surrey! Ellis ms.
22 Berks!
24 Bucks. Hurst ms.
25 Suffolk east.
26 west. Bloomfield.
27 Norfolk east. Woodward sp.
28 west.
29 Cambridge. Extinct.
30 Bedford.
31 Hunts. Bree sp.
34 Gloster west.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Jones rec.
46 Cardigan.
49 Carnarvon.
50 Denbigh.
51 Flint. Robinson cat.
52 Anglesea.
54 Lincoln north.
55 Leicester.
56 Notts.
58 Chester. Henfrey sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Parsons rec.
n. east "sp." Baker.
west. Parsons rec.
65 n. w. Webster rec.
69 Westmoreland! Ball sp.
70 Cumberland.
72 Dumfries. Gray sp.
73 Kirkcudbright?
74 Wigton?
97 Westerness. Ch. Bab. sp.
99 Dunbarton.
02 Eb. south. Balfour sp.
04 north. Lawson cat.
09 Caith. Brown Campst. cat.
[21 61 63 64 65 67 68 76 85 92 100 111 112; possibly two or three of these may be correct, and two or three of the named counties be erroneous. Much confusion between the plants through use of the name '*longifolia*' for either.]

140 Drosera anglica.

3 Devon south. Russell ms.
5 Som. south. Parfitt ms.
9 Dorset. Pleydell ms.

11 Hants south? "Curtis," etc. Sussex ?
25 Suffolk east. Skepper ms.
26 west. Bloomfield.
27 Norf. east. Marsham sp.
28 west. Notcutt cat.
29 Cambridge. Extinct.
30 Bedford.
31 Hunts. Newbould cat.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
58 Chester. J. E. Bowman ms.
59 Lanc. south. Leyland sp.
61 York s. east.
62 n. east. Baker cat
63 s. w. F. A. Lees cat.
65 n. west.
67 Northmb. R. B. Bowman sp.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray sp.
75 Ayr. Hooker sp.
77 Lanark. Hennedy cat.
81 Berwick. Extinct ?
85 Fife. Prof. Balfour ms.
88 Perth mid. F. M. Webb rec.
92 Aber. south ! Dickie sp.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Westerness ! Grieve.
98 Argyle. Hooker sp.
99 Dunbarton ?
00 Clyde-isles. "T. Bell" sp.
02 Eb. south. Balfour cat.
03 mid !
04 north. Lawson cat.
06 Ross east. Ch. Bab. ms.
07 Suth. eath. Greham sp.
08 west ! Greville sp.
09 Caithness. Macnab sp.
10 Hebribes.
11 Orkney. Syme sp.
12 Shetland ? "*longifolia*."

[1 6 etc. not sufficiently testified.]

141 Polygala vulgaris.

Counties all, except 42 74 79 86 98 99; either "*vulgaris*" or "*depressa*" doubtless is to be found in all the counties.

141*Polygala eu-vulgaris.

2 Cornwall east. Briggs cat.
3 Devon south !
4 north. Rogers rec.
8 Wilts south. Rogers rec.
10 Wight !
12 Hants north. Townsend.
13 Sussex west !
14 e. J. L. Warren cat.
15 Kent east. A. Bennett.
16 west !
17 Surrey !
20 Hertford. Blow rec.
21 Middlesex ?
22 Berks. Britten cat.
24 Bucks. Britten.
29 Cambridge. Harris sp.
30 Bedford. Hillhouse cat.
40 Salop. Jones rec.
45 Pembroke. Jones rec.
48 Merioneth. Britten.
49 Carnarvon. Ley rec.
52 Anglesea !
55 Leicester. Mott.
59 Lanc. south ?
62 York n. east. Baker.
63 s. west. F. A. Lees rec.
64 m. west. F. A. Lees rec.
65 n. west. Baker.
66 Durham. R. B. Bowman sp.
69 Westmoreland !
70 Cumberland ! Baker cat.
76 Renfrew. Horn rec.

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88 Perth mid. (F. B. White).
89 east. F. B. White.
12 Shetland ? Tate cat.
N.B. This segregate will likely be found in many other counties ; but few collectors really distinguish it from '*depressa* ;' and the '*oxyptera*' comes in between them even more dubiously.

141*Polygala oxyptera.

1 Corn. west. Ch. Bab. ms.
2 east. Tellam rec.
3 Devon south. Rogers.
4 north. Rogers rec.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset.
12 Hants north. Townsend cat.
14 Sussex east. Borrer ms.
15 Kent east. Duthie.
29 Cambridge. Syme, "ciliata."
35 Monmouth. Ley rec.
41 Glamorgan.
49 Carnarvon. Ley rec.
50 Denbigh. Miss Jones.
58 Chester.
59 Lanc. south. Fisher sp.
62 York n. east. Baker.
63 s. west. F. A. Lees rec.
64 m. west. Foggitt rec.
65 n. west ? Ward cat.
67 Northumberland.
71 Man ?
88 Perth mid. Miller.

141*Polygala depressa.

1 Corn. west. Curnow sp.
2 east. Briggs.
3 Devon south. Briggs sp.
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight!
11 Hants south !
12 north. Baker cat.
13 Sussex west. Borrer cat.
14 east. Roper.
16 Kent west. Groves rec.
17 Surrey !
18 Essex south.
20 Hertford. Blow rec.
21 Middlesex.
22 Berks !
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suff. west. "*ciliata* var."
27 Norfolk east. Trimen.
28 west. Notcutt cat.
30 Bedford. Druce rec.
32 Northton. Druce.
34 Gloster west. Ley rec.
35 Monmouth. Ley rec.
38 Warwick. Bagnall.
39 Stafford.
43 Radnor. Ley cat.
54 Lincoln north. Fowler rec.
55 Leicester. Mott.
58 Chester.
59 Lanc. south F.M.Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east.
63 s. west.
64 m. west.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
70 Cumberland. Baker.
78 Peebles. Grieve.
81 Berwick.
83 Edinburgh !
85 Fife.
86 Stirling. Duthie.
88 Perth mid. F. M. Webb rec.
89 east. (F. B. White).
98 Argyle. F. M. Webb rec.
00 Clyde-isles. Baker.

09 Caithness. Brown cat.
11 Orkney. Syme.
12 Shetland. Tate sp.
N.B. Counties far from being fully ascertained; this is likely the most frequent of the three segregates.

141 Polygala calcarea.

7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Stratton sp.
12 Hants north. Townsend cat.
14 Sussex east. Roper.
16 Kent west. Christy sp.
17 Surrey! Syme sp.
22 Berks. Syme sp.
23 Oxford. Duthie sp.
33 Gloster east. Stephens sp.
44 Carmarthen? Motley ms. [1.]

141 Polygala austriaca.
P uliginosa.

15 East Kent. Duthie sp.
65 N. W. York. Backhouse!

142 Frankenia lævis.

10 Wight! More sp.
11 Hants south. Macreight sp.
13 Sussex west. J. L. Warren.
14 east. Roper.
15 Kent east! Wardale sp.
18 Essex south.
19 north. Warner sp.
25 Suffolk east. Stock sp.
27 Norfolk east. Babington sp.
28 west. Miss Bell sp.
29 Cambridge?
66 *Durham.* "ballast hills." (1 Cornwall; planted).

143 Elatine hexandra.

1 Corn. west. Crotch sp.
12 Hants north. J.L. Warren sp.
14 Sussex east.
17 Surrey! Salmon sp.
22 Berks.
37 Worc. (E.Lees). one locality.
38 Warwick. Lloyd sp.
40 Salop. Hind sp.
48 Merioneth. Matthews.
49 Carnarvon. Hort sp.
52 Anglesea. Babington sp.
55 Leicester? Ch. Bab. ms.
58 Chester. Hardy sp.
87 Perth west. Syme.
89 east. Syme.
91 Kincardine. Syme sp.
92 Aber. south? Collater?
01 Clyde-isles.

144 Elatine hydropiper.

17 Surrey. Salmon sp.
37 Worcester. Irvine sp.
52 Anglesea. Hooker sp.

145 Dianthus prolifer.

10 Wight. Bromfield sp.
11 Hants south. Stratton sp.
13 Sussex west. Borrer ms.
22 Berks.
27 Norfolk east.
28 west.
[1 or 2 3 21 37; and perhaps extinct in some of the other counties.]

146 Dianthus Armeria.

1 Corn. west.
2 east. Briggs sp.
3 Devon south. Rogers.
4 north.
8 Wilts south. Miss Bell ms.

9 Dorset.
10 Wight. Extinct?
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east.
15 Kent east. G. E. Smith cat.
16 west. Dennes ms.
17 Surrey! Ellis sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Warner sp.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock ms.
26 west. Skepper cat.
27 Norfolk east. Bloxam ms.
28 Norfolk west.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Lloyd sp.
39 Stafford.
40 Salop.
41 Glamorgan.
44 Carmar. Mrs. Oakeshott rec.
52 Anglesea.
58 Chester. "Miss Potts."
59 Lanc. south.
62 York n. east. "Ibbotson."
63 s. west. Newb. ms.
65 Durham.
70 Cumberland.
83 Edinburgh. Balfour cat.*
89 Perth east. Brand sp.
90 Forfar.

[N.B. Remarkably uncertain or temporary in its localities; perhaps scarcely better than a casual in some of the counties named above. 80.]

149 Dianthus cæsius.

6 North Somerset. Christy sp. (23 37 83). [11 32 34 53 69].

150 Dianthus deltoides.

3 Devon south. Poole ms.
6 Som. north. Thwaites cat.
13 Sussex west.
15 Kent east?
17 Surrey. Twining sp.
19 Essex north. Varenne cat.†
20 Herts.
21 Middlesex. Extinct?
24 Bucks.
25 Suffolk east?
26 west. Skepper.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
34 Gloster west. Thwaites cat.
37 Worcester.
39 Stafford.
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.
44 Carmar. Mrs. Oakeshott rec.
48 Merioneth. Butler sp.
49 Carnar. J. E. Bowman ms.
50 Denbigh. J. E. Bowman cat.
55 Leicester.
56 Notts.
57 Derby.
58 Chester. "H. E. Smith sp."
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Spruce sp.
63 s. west. F. A. Lees.
64 m. west. Biden sp.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
75 Ayr. Duncan cat.
77 Lanark. "Mr. Dunlop."
80 Roxburgh. Duncan cat.
81 Berwick.

82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme sp.
87 Perth west.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Mrs. Dickson.
96 Easterness. Stables sp.
(10) [36 52 70 95 101 106 112].

151 Saponaria officinalis.

N.B. On record for nearly all the counties of England, and for several in Wales and Scotland; but almost invariably reported by reliable collectors as an introduced plant.

152 Silene inflata.

Counties all, except 42 74 97 98 99 101 103 104 107 108 110 [111] 112. Caithness, possibly introduced; R. Brown cat.

153 Silene maritima.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Collins ms.
9 Dorset. Twining sp.
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer ms.
14 east. Hall.
15 Kent east. Twining sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Notcutt sp.
27 Norfolk east.
28 west.
35 Monmouth. Conway cat.
41 Glamorgan.
42 Brecon. "2800 feet."
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth. Bailey rec.
49 Carnarvon!
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea!
54 Linc. north. F. A. Lees rec.
58 Chester. J. L. Warren cat,
60 Lanc. west. Syme sp.
62 York n. east.
64 m. west. Tatham cat.
65 York n. west. Ward sp.
66 Durham.
67 Northumb. Oliver sp.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland! Bailey sp.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow! Balfour cat.
85 Fife. Syme cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness!
97 Westerness!
98 Argyle. Church. Bab. ms.
99 Dunbarton. Hooker sp.

00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ch. Bab. ms.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east! Gordon cat.
08 Suth. west!
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

N.B. The technical distinctions between this plant and the preceding are very slight, yet seeming constant, and under varied conditions of garden culture during several successive descents.

154 Silene Otites.

26 Suff. west. Bunbury sp.
28 Norf. west. Wardale sp.
29 Cambridge. Babington ms.
[46 62 65]. (66).

155 Silene anglica.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers.
Somerset.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Miss Twining sp.
10 Wight. More cat.
11 Hants south!
12 north!
13 Sussex west.
14 east.
15 Kent east. G. E. Smith cat.
17 Surrey! Ellis ms.
19 Essex north. Varenne sp.
20 Herts.
21 Middlesex?
22 Berks!
24 Bucks.
25 Suffolk east.
26 west.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Mrs. Russell sp.
48 Merioneth.
49 Carnarvon.
51 Flint. Robinson cat.
52 Anglesea.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester!
59 Lanc. s. F. M. Webb. cat.
61 York s. east.
62 n. east. Foggitt sp.
63 s. w. F. A. Lees cat.
64 m. west. Baker.
66 Durham. F. A. Lees.†
71 Man. Forbes cat.
75 Ayr.
82 Haddington. Balfour cat.*
83 Edinburgh.
85 Fife. Dewar sp.
88 Perth mid.
90 Forfar.
95 Elgin. Gordon cat.†
96 Easterness. Stables cat.
(67 "ballast hills").

156 Silene nutans.

3 Devon south.
8 Wilts south?
10 Wight. More sp.

15 Kent east. G. E. Smith cat.
39 Stafford?
40 Salop?
49 Carnar. J. E. Bowman ms.
50 Denbigh. J. E. Bowman ms.
51 Flint. J. E. Bowman ms.
56 Notts. Eddison sp.
57 Derby! Ch. Bab. sp.
64 York mid west.
85 Fife. Maughan sp.
90 Forfar. Gardiner sp.
91 Kincardine. Mrs Dickson.
(20 55 70). [2 6 11 17 32 111].

156 Silene italica.

16 West Kent. Syme sp.
17 Surrey. Dr. Bossey.*
29 *Cambridge*. Barton sp.
83 *Edinburgh*. Evans sp.

157 Silene noctiflora.

2 Corn. west. Briggs.†
3 Devon south. Briggs sp.†
7 Wilts north. Preston sp.†
14 Sussex e. Mrs. Oakeshott.
15 Kent east. G. E. Smith cat.
17 Surrey, Wintle.
18 Essex south.
19 north. Christy sp.
20 Herts. I. Brown sp.
21 Middlesex. Dyer.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Bloomfield.
27 Norfolk east. Stock ms.
28 west. Bell sp.
29 Cambridge.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton!
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
50 Denbigh. Stratton.
54 Lincoln north. Britten cat.
55 Leicester. Mott.
56 Notts.
57 Derby. Church Bab. sp.
62 York n. east. Baker sp.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. "colonist."
68 Cheviotland. "colonist."
80 Roxburgh. Brotherston rec.
82 Haddington. Syme sp.
85 Fife. Dewar sp. Syme cat.
87 Perth west.
90 Forfar.
(10 14 17 21 39 55 59 61 81 83; some of these counties perhaps through misnomers).

158 Silene conica.

13 Sussex w. J. L. Warren sp.†
15 Kent east! G. E. Smith cat.
16 west. Crespigny rec.
26 Suff. west. Bunbury sp.
27 Norf. east. Stock ms.
28 west. Wardale sp.
82 Haddington. Macnab sp.
90 Forfar. Reid sp. Croall sp.
(22 67 95). [37 39].

159 Silene acaulis.

49 Carnarvon! Leefe sp.
69 Westmoreland.
70 Cumberland!
86 Stirling. Hooker sp.
87 Perth west. F. M. Webb rec.
88 mid!
98 east.
90 Forfar!

92 Aber. south! Dickie cat.
94 Banff.
96 Easterness.
97 Westerness!
98 Argyle. Gordon ms.
99 Dunbarton.
03 Ed. mid.
04 north. Lawson cat.
05 Ross west. Graham sp.
08 Sutherland west. Ley.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland.

160 Lychnis alpina.

69 Lake Lanc. R. Potter rec.
70 Cumberland. Oliver sp.
90 Forfar. J. Macnab sp.

161 Lychnis Viscaria.

43 Radnor. Purchas ms.
47 Montgom. J. E. Bowman sp.
73 Kirkcudbright.
80 Roxburgh. Duncan cat.
83 Edinburgh! Brand sp.
85 Fife. Syme cat.
86 Stirling. Gourlie sp.
89 Perth east.
90 Forfar.
(17*).

162 Lychnis Flos-cuculi.

Counties all, except 42 74 98; in all of which doubtless it does occur.

168 Lychnis diurna.

Counties all, except 31 74 97 107. Possibly it may be absent from 31 Huntingdon. Just within the county of Cambridge; Prof. Babington ms.

164 Lychnis vespertina.

1 Corn. west. Cunack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east! Coleman cat.†
15 Kent east!
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff east. Purchas ms.
26 west. Skepper cat.
27 Norf. east. Babington.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.

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46 Cardigan. H. L. Jones cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby.
58 Chester! J. L. Warren cat.
59 Lanc. south. F.M. Webb cat.
60 York west. Linton cat.
61 s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland. Oliver sp.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
85 Fife. Syme cat.
86 Stirling!
87 Perth west!
88 mid. Miller cat.
89 east!
90 Forfar.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
05 Ross west. (Druce).
06 east!†
09 Caithness. Grant cat.
11 Orkney. Fortescue.

165 Lychnis Githago.

Counties all, except 42 45 46 47 48 60 74 78 79 88 97 98 104 105 107 108 110 112†.

166 Moenchia erecta.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north. Stevens sp.
7 Wilts north. Preston v. sp.
9 Dorset. Mansel cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north. Townsend cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
18 Essex south. Sansom sp.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper cat.
27 Norfolk east. Stock cat.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton.
34 Gloster west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick.
39 Stafford.

40 Salop. Leighton cat.
43 Radnor. Ley cat.
47 Montg. J.E. Bowman ms.
49 Carnarvon !
51 Flint. Robinson cat.
52 Anglesea !
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J.L. Warren cat.
59 Lanc. south. F.M. Webb cat.
63 York s. west.
64 m. west. F.A. Lees cat.
66 Durham.
68 Cheviotland. Tate sp.

167 Sagina apetala. (Aggr).

Counties all, except 35 48 70 72 73 74 78 79 86 87 [97] 98 99 102 103 105 107. It is now impossible to apportion the recorded counties precisely among the three segregates treated underneath. *S. maritima* has been longer known, and thus more often recorded distinctly; though several of its alleged localities may be held to require verification. *S. ciliata* is perhaps more frequent than *S. apetala* (seg.) and extends farther northward.

167 Sagina maritima.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight more cat.
11 Hants south. Towns. cat.
13 Sussex west. Brewer sp.
14 east. Roper cat.
15 Kent east. Ar. Bennett.
18 Essex south.
19 north. Varenne ms.
25 Suffolk east. Coleman ms.
27 Norfolk east. Barnard sp.
28 west.
29 Cambridge.
41 Glamorgan. Withers sp.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan.
48 Merioneth. Bailey rec.
49 Carnarvon. Hunt sp.
50 Denbigh.
51 Flint. J. E. Bowman sp.
52 Anglesea.
54 Lincoln north. (A. Carr).
58 Chester.
59 Lanc. south ! Fisher sp.
62 York n. east. Baker sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
71 Man. Forbes cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
82 Haddington.
83 Edinburgh ! Balfour sp.
84 Linlithgow. Macnab sp.
85 Fife. Syme, "genuina."
89 Perth east. (F. B. White.)
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie sp.
93 north.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Eb. mid. Ch. Bab. ms.
04 north. Ch. Bab. ms.
05 Ross west. (Druce).
06 east. Campbell sp.

08 Suth. west ?
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
[11 Berw. 97 Ben Nevis].

167 Sagina apetala. (Segr.)

1 Cornwall west. Briggs.
2 east.
3 Devon south. Briggs.
4 north. Rogers.
6 Somerst north !
8 Wilts south. Rogers.
9 Dorset. Pleydell.
10 I. of Wight !
11 Hants south !
12 north. Towns. cat.
13 Sussex w. J. L. Warren cat.
14 east. Roper.
15 Kent east. Baker.
17 Surrey !
19 Essex north.
20 Herts.
21 Middlesex.
22 Berks !
23 Oxford. (Druce) rec.
24 Bucks. Britten cat.
27 Norfolk east. Babington.
28 west. Ar. Bennett.
29 Cambridge.
30 Bedford. R. A. Pryor.
31 Hunts. Marshall.
32 Northton. Druce.
34 Gloster west !
35 Monmouth.
36 Hereford. Purchas sp.
37 Worcester. (E. Lees).
38 Warwick.
39 Stafford.
46 Cardigan. Jones cat.
47 Montgomery.
53 Lincoln south. Fowler.
54 north !
58 Chester. Bailey.
59 Lanc. south.
62 York n. east.
63 s. west.
64 m. west.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
81 Berwick. Eng. bot. ed. 3.
82 Haddington. Craig Christie.
89 Perth east. (F. B. White).
N.B. Very doubtful farther north, as yet. The example from Montgomery was sent to the Exchange Club labelled as "*Arenaria tenuifolia*;" and there are grounds for suspecting that *S. ciliata* also has been occasionally so misreported.

168 Sagina ciliata. (Segr).

1 Corn. west. Briggs ms.
2 east. Briggs ms.
3 Devon south. Briggs sp.
4 north. Rogers rec.
5 Som. south. Coleman cat.
6 north ?
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Townsend cat.
12 north ?
13 Sussex west. Borrer cat.
14 e. J. L. Warren cat.
15 Kent east. Baker.
16 west. H. Groves rec.
17 Surrey ! Syme sp.
18 Essex south.
19 north.
20 Herts. Barnard sp.
21 Middlesex !
22 Berks !
24 Bucks. Britten cat.
25 Suffolk east.

26 Suffolk west. Newbould ms.
27 Norf. east. Barnard sp.
28 west. Newbould ms.
29 Cambridge. Hort sp.
31 Hunts. Druce rec.
36 Hereford. Ley rec.
38 Warwick. Bagnall ms.
42 Brecon. Ley rec.
47 Montgomery. Warren sp.
48 Merioneth. Bailey rec.
50 Denbigh. Bailey rec.
54 Linc. north. F. A. Lees rec.
55 Leicester. Mott.
56 Notts.
58 Chester. J. L. Warren.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. west.
64 m. west.
67 Northumberland.
68 Cheviotland. Tate ms.
77 Lanark ?
80 Roxburgh. Brotherston.
81 Berwick.
82 Haddington. Craig Christie.
83 Edinburgh. Syme sp.
85 Fife. Syme sp.
86 Stirling. Duthie.
88 Perth mid. Syme.
89 east. (F. B. White).
91 Kincardine. Roy ms.
92 Aber. south. Dickie sp.
94 Banff. Roy, "sent to me."

168 Sagina procumbens.

Counties all, except 74.

169 Sagina saxatilis.
(*Spergula saginoides.*)

88 Perth mid ! Ball sp.
90 Forfar !
92 Aber. south ! Dickie cat.
96 Easterness !
97 Westerness. Sadler.
08 Suth. west. Stables sp.
36 75 111].

169 Sagina subulata.
(*Spergula subulata.*)

1 Corn. west. G. S. Gibson ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north !
6 Som. north. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Russell sp.
12 north !
14 Sussex east. Coleman cat.
15 Kent east ?
17 Surrey ! Ellis sp.
21 Middlesex ?
22 Berks !
24 Bucks ?
27 Norfolk east.
28 west.
32 Northton ?
39 Stafford.
45 Pembroke. Babington sp.
49 Carnarvon. Winch ms.
50 Denbigh.
51 Flint. Robinson cat.
52 Anglesea !
58 Chester. F. M. Webb sp.
61 York s. east ?
62 n. east.
67 Northumberland ?
88 Cheviot. Richardson sp.
71 Man. Jowett sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hooper sp.
81 Berwick.
83 Edinburgh ! Balfour cat.
84 Linlithgow.
85 Fife. Craig Christie sp.
86 Stirling. Croall rec.
87 Perth west !
88 mid. Miller.

89 Perth east!
90 Forfar. Brand sp.
91 Kincardine .Syme cat.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Syme sp.
04 north. Lawson cat.
08 Suth. west. Johnston ms.
10 Hebrides.
12 Shetland.

170 Sagina nivalis.

88 Perth Mid. Balfour sp.
99 Dunbarton ? or Argyle ?
[90 Man. ed. 3. 104 Brit. flo. ed. 8].

171 Sagina nodosa.
(*Spergula nodosa.*)

1 Corn. west! Cunnack cat.
2 east. Pascoe cat ?
3 Devon south ?
4 north! Maw cat.
6 Som. north.
7 Wilts north. Preston v. sp.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Townsend cat.
12 north. Townsend cat.
13 Sussex west. Roper.
14 east.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
20 Herts. Crespigny sp.
21 Middlesex!
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Bloomfield.
26 west. Skepper.
27 Norf. east. Stock ms.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Fryer.
33 Gloster east ?
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan.
48 Merioneth.
49 Carnarvon. Robinson cat.
51 Flint!
52 Anglesea.
53 Linc. south!
54 north. Britten.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Fleming sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan can.

76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
06 Ross east! Gordon cat.
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

N.B. This would appear to rank among the "common plants" by its wide and nearly general distribution; but its localities are rather dotted over the island, than really continuous like those of the Daisy and other more truly common species.

172 Spergula arvensis.

Counties all, except 35 42 74; no doubt to be found in all these seeming vacancies.

173 Honkeneja peploides.

1 Corn. west! Cunnack cat.
2 east. Goulding sp.
3 Devon south. Gissing sp.
4 north.
6 Som. north. Thwaites sp.
9 Dorset. Pleydell cat.
10 Wight! Twining sp.
11 Hants south. Towns. cat.
13 Sussex west. Warren cat.
14 east. Bloomfield.
15 Kent east! G. E. Smith cat.
18 Essex south. Ar. Bennett.
19 north. Hall sp.
25 Suffolk east. Purchas ms.
27 Norfolk east. Paget sp.
28 west.
41 Glamorgan. E. Lees sp.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth. Gibson ms.
49 Carnarvon. Bloxam ms.
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south.
54 north! Howitt sp.
53 Chester!
59 Lanc. south! F.M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey.
70 Cumberland.
71 Man. Forbes cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.

87 Perth west. Syme cat.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat
03 Ebrides. Ross rec.
04 Eb. north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!
09 Caithness. R. Brown cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate sp.

174 Spergularia marina.
(Aggregate).
(*Lepigonum marinum*).

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north! Stephens sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
13 Sussex west! Syme sp.
14 east!
15 Kent east! Buckland sp.
16 west!
18 Essex south.
19 north.
25 Suffolk east. Purchas sp.
27 Norfolk east.
28 west. Cooper sp.
29 Cambridge.
34 Gloster west! Thwaites cat.
47 Worcester. Dr. Fraser.
39 Stafford.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
49 Carnarvon.
51 Flint!
52 Anglesea.
53 Lincoln south! Butler sp.
54 north! Howitt sp.
58 Chester! Hunt sp.
59 Lanc. south! F.M.Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
71 Man. Jowett sp.
72 Dumfries. Gray cat.
75 Ayr.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh Balfour cat.
85 Fife.
87 Perth west. Syme cat.
89 east. F. B. White.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
06 Ross east. Gordon cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

174*Spergularia marginata. (Segregate).

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers rec.
6 Som. north. Stevens sp.
10 Wight. More.
11 Hants south. Townsend ms.
13 Sussex west!
14 east. Ar. Bennett.
15 Kent east.
28 Norfolk west. Blow rec.
44 Carmarthen.
46 Cardigan. Jones rec.
48 Merioneth. Bailey.
49 Carnarvon. Bailey.
51 Flint. R. Brown.
52 Anglesea. Davies.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
58 Chester. F. M. Webb.
59 Lanc. south.
62 York n. east. Baker.
65 Durham. Baker.
67 Northumberland.
68 Cheviotland. Baker.
69 Westmoreland. Bailey rec.
76 Renfrew. Hennedy.
85 Fife. Syme cat.
00 Clyde-isles. Hennedy cat.
03 Ebrides mid. Ross rec.
11 Orkney. Syme.

N.B. Probably found in most of the counties indicated above for the aggregate "*marina*." I am not able clearly to distinguish this segregate and the next although the extreme examples do appear so different.

174 Sperg. neglecta. (Seg). (*S. media*).

1 Corn. west. A. W. Bennett.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
6 Som. north. Melvill.
9 Dorset.
10 Wight.
13 Sussex west!
14 east. R. A. Pryor.
15 Kent east!
16 Hants south. Townsend.
18 Essex south?
19 north. Varenne ms.
27 Norfolk east. Ar. Bennett.
28 west.
29 Cambridge. Babington ms.
37 Worcester.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north!
58 Chester. Hunt. J.L.Warren.
59 Lanc. south. F. M. Webb cat.
60 west?
61 York s. east.
62 n. east. Baker ms.
63 s. west.
66 Durham. Norman ms.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
74 Wigton. Horn rec.
81 Berwick. Brotherston rec.
85 Fife. Syme cat.
99 Perth east. (F. B. White).
09 Caithness. Nicolson cat.
11 Orkney. Syme E.B. ed. 3.

174 Sperg. rupestris. (Seg.)

1 Corn. west. Bailey sp.
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north. Maw sp.

9 Dorset. Boswell-Syme ms.
10 Wight! More cat.
11 Hants south. Townsend.
44 Carmarthen. Jones rec.
45 Pembroke. Bailey rec.
49 Carnarvon. Hunt sp.
52 Anglesea. Windsor sp.
58 Chester. F. M. Webb sp.
59 Lanc. south. Lewis sp.
71 Man. Webb ms.
73 Kirkcud. Craig Christie.
74 Wigton. Horn. rec.
05 Ross west. (Druce).
N.B. Very little differing from some states of "*neglecta*," and perhaps only the same thing more advanced in age, having survived many seasons.

175 Spergularia rubra.

Counties all, except 35 42 43 47 73 74 75 78 79 86 89 97 98 101 to 105 107 to 112.

177 Arenaria norvegica.

112 Shetland. Tate sp.
[111 Murchison and Peach].

178 Arenaria serpyllifolia.

Counties all, except 35 48 72 74 78 97 98 99 104 107 109 112; in most of these it will be found either native or colonist. The counties for "*leptoclados*" are not here attempted apart, because several of the speci- which I have seen so labelled were simply slender states of *serpyllifolia*. I have seen the true plant in 6 10 17 21 and likely in other counties, on walls and by roadsides, not in cornfields.

179 Arenaria tenuifolia.

6 Som. north. Collins ms.
7 Wilts north.
8 south. Rogers.
11 Hants south. More ms.
12 north. Towns. cat.
14 Sussex east. G. E. Smith sp.
16 Kent west. Bossey sp.
17 Surrey! Salmon sp.
19 Essex north.
20 Herts. Fordham sp.
21 Middlesex?
22 Berks. Syme sp.
23 Oxford.
24 Bucks. Britten cat.
26 Suffolk west. Duthie sp.
27 Norf. east. Woodward sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
37 Worcester. (E. Lees).
38 Warwick. Bloxam ms.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south. Bloxam sp.
57 Derby. Whitehead sp.
62 York n. east.
63 s. west.
64 m. west. (Baker).
65 n. west. Baker sp.
[1 2 3 9 39 40 59 83 85; an old or poor authority].

180 Arenaria verna.

1 Corn. west. Ar. Bennett sp.

6 Som. north. Stephens sp.
39 Stafford.
42 Brecon ?
49 Carnarvon. Howitt sp.
50 Denbigh. J. E. Bowman cat.
51 Flint. J. E. Bowman sp.
57 Derby ! Howitt cat.
58 Chester ?
60 Lanc. west.
63 York s. west ?
64 m. west. Baker sp.
65 n. west. Leefe sp.
66 Durham. Baker sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright ?
81 Berwick.
83 Edinburgh ! Balfour cat.
88 Perth mid.
92 Aber south.
93 north.
12 Shetland. Tate cat.
[32 36 56 77 90; errors or insufficiently vouched].

181 Arenaria rubella.

88 Mid Perth ! Hooker sp.
08 West Suth. Graham exc. "on one cliff on Ben Hope, Sutherland."

181 Arenaria uliginosa.
(*Spergula stricta*).

66 Durham. G. S. Gibson sp.

182 Arenaria trinervia.

Counties all, except 42 71 74 75 78 97 98 101 to 105 107 108 109 to 112; in many of which it is likely to occur.

184 Stellaria nemorum.

35 Monmouth. Watkins sp.
36 Hereford.
37 Worcester. (E. Lees).
40 Salop ?
41 Glamorgan ?
46 Cardigan. Ley rec.
47 Montgomery. Mellvill cat.
48 Merioneth. Butler sp.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
54 Linc. north. Fowler rec.
57 Derby. Howitt sp.
58 Chester.
59 Lanc. south ! Goodlad hb.
62 York n. east.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviot. Miss Pringle sp.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick. Embleton ms.
83 Edinburgh ! Balfour cat.
85 Fife ?
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid ! Campbell sp.
89 east. (F. B. White).
90 Forfar. Roy sp.
91 Kincardine. Dickie ms.
94 Banff. "Grant Duff."
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton. Hooker sp.
[2 Bot. Soc. Ed. 3 Flo. Dev.

37 Lees. 38 Bree. 50 Faun. Grust. Authorities not satisfactory for a plant which has been confused by collectors with *Cerastium aquaticum* and with nemoral varieties of *Stellaria media*. The ? follows the names of other counties, for which the authority may be rather better, although still scarcely sufficient.

185 Stellaria media.

Counties all, except 74.

185*Stellaria umbrosa.

3 Devon south. Towns. sp.
6 Som. north.
9 Dorset. (Newbould.)
15 or 16 Kent. Edwards sp.
18 Essex south.
19 north. Varenne.
35 Monmouth.
36 Hereford. Ley sp.
38 Warwick. Bagnall rec.
58 Chester. F. M. Webb sp.
62 York n. west. Webster.
64 mid west. F. A. Lees.
85 Fife. Syme sp.
88 Perth mid. F. B. White.
89 east. (F. B. White.)

185 Stellaria Holostea.

Counties all, except 74 97 98 102 104 107 110 112; likely to occur in all of these, unless 110 and 112 be real exceptions.

187 Stellaria glauca.

9 Dorset. Pleydell cat.
11 Hants south. Bromf. ms.
12 north. "Newnham."
13 Sussex west. Borrer cat.
17 Surrey !
18 Essex south.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Hort sp.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Druce.
37 Worcester.
38 Warwick. Bromwich.
40 Salop. Bidewell sp.
49 Carnarvon. Robinson cat.
50 Denbigh. Gordon ms.
52 Anglesea.
53 Linc. s. Fowler & Lees rec.
54 north. Bogg cat.
55 Leicester.
56 Notts.
58 Chester. Gordon ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Cheeseman.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton cat.
70 Cumberland.
73 Kirkcudbright. Gray cat.
76 Renfrew. Montgomery.
77 Lanark. Hennedy cat.
80 Roxburgh.
81 Berwick.
82 Haddington ?
83 Edinburgh ! Balfour cat.

85 Fife.
[1 2 3 5 or 6 7 14 16 35 37 39, insufficiently vouched. Both *S. uliginosa* and *Holostea* have been misreported as *S. glauca*, partly perhaps through their glaucous-green hue].

188 Stellaria graminea.

Counties all, except 74 97 98 102 105 107 110; likely to occur in all.

189 Stellaria uliginosa.

Counties all, except 31 34 42 51 73 74 84 98 101; simply overlooked in these ?

190 Stellaria cerastoides.
(*Cerastium trigynum.*)

88 Perth mid.
92 Aber. south. Brand sp.
96 Easterness. Gordon sp.
97 Westerness ! Roy sp.
[94].

191 Cerastium aquaticum.

2 Cornwall east ?
3 Devon south !
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Turquand rec.
12 north !
13 Sussex west. Borrer cat.
14 e. J.L. Warren rec.
15 Kent east. G.E. Smith cat.
16 west. Mrs. Atkins sp.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper cat.
27 Norfolk east. Stock ms.
28 west. Miss Bell ms.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester. Russell sp.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint !
53 Lincoln south !
54 north !
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Whittaker sp.
58 Chester. J.E. Bowman ms.
59 Lanc. south.
61 York s. east.
62 n. east. Baker sp.
63 s. west. F.A. Lees cat.
64 m. west. F.A. Lees cat.
65 n. west.
(66 80). [77 80 90 111].

192 Cerastium glomeratum.

Counties all, except 74 97 98 107; in all these it is sure to occur.

193 Cerastium triviale.

Counties all, except 43 74.

194 Cerast. semidecandrum.

1 Corn. west. Ralfs sp.
2 east. Briggs sp.
3 Devon south. Briggs.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More sp.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer cat.
14 east. Syme ms.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. J. Brown sp.
21 Middlesex!
22 Berks!
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock sp.
26 west. Bloomfield.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley rec.
45 Pembroke. Babington cat.
47 Montgomery. Bloxam sp.
49 Carnarvon!
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south Bloxam sp.
54 north!
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
62 York n. east. Baker sp.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Baker sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Balf. sp. Syme sp.
86 Stirling. Croall rec.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
[111 Clouston. 112 Edmonston].

194 Cerastium tetrandrum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.

3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Gifford sp.
6 north. Collins ms.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Babington ms.
13 Sussex west. Borrer cat.
14 east. Lingwood sp.
17 Surrey!
18 Essex south. Ar. Bennett.
19 north.
25 Suffolk east.
27 Norfolk east. Babington sp.
28 west.
34 Gloster west. Stephens sp.
36 Hereford. Purchas sp.
37 Worcester. (E. Lees).
39 Stafford? "Mr. Spark."
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth. Bailey rec.
49 Carnarvon!
52 Anglesea. Winch ms.
54 Linc. north. F. A. Lees rec.
55 Leicester. Bloxam ms.
58 Chester! Sansom sp.
59 Lanc. south. Wood sp.
60 west. Linton cat.
61 York s. east. Webster rec.
62 n. east. Baker cat.
66 Durham. Hort sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
70 Cumberland? M. G.
71 Man. Carrington sp.
75 Ayr. Gourlie sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme sp.
82 Haddington. Syme sp.
83 Edinburgh! Syme sp.
85 Fife. Dewar sp. Syme sp.
86 Stirling.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
96 Easterness.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
09 Caithness. Grant cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.

N.B. Much confused with '*semidecandrum;*' and some localities of '*tetrandrum*' probably still assigned to the other species, or *vice versâ*.

194 Cerastium pumilum. "glutinosum."

1 Corn. west. "C.C.B." 1839.
3 Devon south. Townsend sp.
9 Dorset. Pleydell cat.
10 Wight. More sp.
17 Surrey. "Dickson, 1778."
33 Gloster east. Duthie sp.
34 west. Stephens sp.
37 Worcester. (E. Lees).
52 Anglesea?

N.B. Specimens picked on Molesey Hurst, Surrey, and labelled "*tetrandrum*" by myself, were named "*glutinosum*" by Mr. Lloyd of Nantes. The counties of Durham and Fife have been reported, but through misnomers. The botanists of Cornwall do not appear to have seen this plant there. [30 66 85].

195 Cerastium arvense.

8 Wilts south. Flower cat.
9 Dorset. Pleydell rec.
11 Hants south. Stratton.
12 north.
14 Sussex east. Roper cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Bloomfield.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Fordham sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
36 Hereford. Purchas "v. s."
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Huish rec.
50 Denb. J. E. Bowman cat.
53 Linc. south! Bloxam ms.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
60 Lanc. west. Syme sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west. F. A. Lees cat.
64 m. west. Kingsley sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton cat.
71 Man. Forbes sp.
72 Dumfries. Cruickshank sp.
73 Kirkcudbright. Gray cat.
77 Lanark. "Mr. Dunlop."
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Brand sp.
85 Fife. Lawson ms.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Syme sp.
93 north.
94 Banff.
95 Elgin. Gordon cat.†
96 Easterness. Stables sp.
[3 9 111; the name appears to mislead some collectors, who thus label *C. vulgatum*, or report "*C. arvense*" from "cornfields."

196 Cerastium alpinum.

49 Carnarvon. Ball sp.
69 Westmoreland. Gutch sp.
86 Stirling. Hooker sp.
88 Perth mid!
89 east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south. Dickie sp.
96 Easterness. Ley rec.
97 Westerness. Roy sp.
99 Dunbarton.
04 Eb. north. Lawson cat.
08 Suth. west! Graham sp.

197 Cerastium latifolium.

49 Carnarvon. Sandys sp.
86 Stirling.
87 Perth west. Ley rec.
88 mid! H. Balf. sp.

90 Forfar. Mennell.
92 Aber. south. Syme sp.
94 Banff. Barry sp.
97 Westerness!
99 Dunbarton.
08 Suth. west. Graham sp.
12 Shetland. *C. nigrescens.*
[86 98 Lightf. 111 Neill].

198 Cherleria sedoides.

88 Perth mid!
90 Forfar. Brand sp.
97 Westerness. Sadler.
98 Argyle.
04 Eb. north. Ch. Bab. sp.
05 Ross west.
08 Suth. west! Campbell sp.
12 Shetland?

200 Linum perenne.

19 Essex north.
26 Suffolk west.
27 Norf. east.
28 west. Miss Bell sp.
29 Cambridge. Harris sp.
32 Northton?
55 Rutland.
61 York s. east.
62 n. east.
64 m. west.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
69 Westmoreland?
N.B. *Linum angustifolium* has repeatedly been misreported as *L. perenne;* and more strangely *L. usitatissimum* also. Probably it was one or other of these in the following counties [3 4 6 9 11 14 15 18 20 40 83].

201 Linum angustifolium.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
8 Wilts south.
9 Dorset. Pleydell ms.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex west. J. L. Warren.
14 east. Trevelyan sp.
15 Kent east! West sp.
16 west.
17 Surrey!
18 Essex south. Syme sp.
19 north.
22 Berks?
25 Suffolk east.
27 Norfolk east. Barnard ms.
28 west. Babington sp.
33 Gloster east?
36 Hereford.
39 Stafford?
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington sp.
49 Carnarvon. Robinson cat.†
51 Flint. Francis Bacon.
52 Anglesea.
58 Chester. J. L. Warren cat.
59 Lanc. south!
71 Man.
[62]. (66).

202 Linum catharticum.

Counties all, except 42 74 78; doubtless to be found in all of them.

203 Radiola millegrana.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs sp.

4 Devon north.
Somerset. Southby cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Townsend.
12 north! Townsend.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey! Coleman ms.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks.
24 Bucks.
25 Suffolk east. Bloomfield.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Extinct?
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan. Withers sp.
45 Pembroke. Babington cat.
48 Merioneth. Russell sp.
49 Carnarvon. Babington ms.
50 Denbigh?
51 Flint. Robinson cat.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester. Ch. Bab. ms.
56 Notts.
58 Chester. Sansom sp.
59 Lanc. south. Tudor ms.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Lees cat.
64 m. west. Lees cat.
65 n. west.
66 Durham. F. A. Lees rec.
68 Cheviotland.
69 Westm. Miss Barnard.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. G. Macnab sp.
76 Renfrew. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
85 Fife. Carnegie sp.
86 Stirling. Croall cat.
88 Perth mid. Brand sp.
89 east.
90 Forfar. Carnegie sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Croall sp.
98 Argyle. Hooker sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid.
05 Ross west. Ross cat.
06 east! Gordon cat.
Sutherland. Johnston ms.
09 Caithness. Brown cat.
11 Orkney. Syme sp.

204 Malva moschata.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt sp.

12 Hants n.! Miss Twining sp.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west. Roper.
17 Surrey!
18 Essex south.
19 north! Varenne cat.
20 Herts. Warner sp.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Miss Foster sp.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Miss Huish rec.
47 Montgomery. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh! J. E. Bowman cat.
51 Flint!
52 Anglesea.
53 Lincoln south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
61 York s. east. Webster rec.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife.
87 Perth west. Syme cat.
88 Perth mid. Miller.
89 east. (F. B. White).
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
(90 91 92 95 96 109).

205 Malva sylvestris.

Counties all, except 73 74 78 79 93 94 97 98 101 103 104 105 107 to 112. Rare in North Britain; and deemed not indigenous in Aberdeen or Moray.

206 Malva rotundifolia.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.

7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent east! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Britten.
49 Carnarvon!
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north! Britten cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west.
61 York s. east. Parsons rec.
62 n. east. Baker sp.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey.
75 Ayr. Duncan cat.
77 Lanark. Hooker cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.†

207 Althæa hirsuta.

6 Somerset north. Baker.
16 Kent west.

208 Althæa officinalis.

1 Corn. west. Extinct?
2 east? "Couch."
3 Devon south. Briggs cat.†
6 Som. north. Collins ms.
9 Dorset. Pleydell ms.
10 Wight! Miss Twining sp.
11 Hants south. Notcutt cat.
14 Sussex east. Trevelyan sp.
15 Kent east! G. E. Smith cat.
18 Essex south.
19 north. Varenne ms.
25 Suffolk east.
27 Norfolk east.
28 west. Miss Bell sp.

29 Cambridge. Babington cat.
34 Gloster west! Thwaites cat.
40 *Salop.* Brooks in Shrop. flo.
41 Glamorgan. Brent sp.
44 Carmarthen. Moggridge sp.
45 Pembroke.
53 Lincoln south. Fowler rec.
54 Linc. north! Howitt sp.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright.
00 Clyde-isles. Hennedy cat.† (58 59 68). [21 49 64 86 99].

210 Lavatera arborea.

1 Cornwall west! Curnow sp.
2 east. Briggs cat.
3 Devon s. G. S. Gibson ms.
4 north?
6 Som. north. Collins ms.
41 Glamorgan.
44 Carmarth. H. L. Jones rec.
45 Pembroke. Babington cat.
48 Merioneth.
49 Carnarvon. Introduced?
52 Anglesea. J. E. Bowm. ms.
71 Man. J. Macnab ms.
75 Ayr. Ailsa Craig, &c. (10 13 14 67 82 85 100). [9 11 18 27, on old records only].

210 Lavatera sylvestris.

01 Scilly Isles. Curn., Ralfs sp.

211 Tilia parvifolia.

3 Devon south. Flower sp.
6 Somerset north!
10 Wight. Bromfield ms.
11 Hants south. Bromf. ms.
Sussex. Borrer cat. co.
18 Essex south.
19 Essex north. Benthall sp.
32 Northton. Berkeley ms.
34 Gloster west. Sandys sp.
35 Monmouth. Gibson ms.
36 Hereford. Babington ms.
37 Worcester. Butler sp.
39 Stafford. Babington ms.
41 Glamorgan. E. Lees ms.
42 Brecon. Native; E. Lees.
57 Derby. Church. Bab. ms.
62 York n. east. "native."
70 Cumberland! (1 16 17 21 23 24 26 29 33 38 49 50 51 53 or 54 55 56 58 59 64 66 69 75 77 82 83 88; more or less uncertainly indigenous, or insufficiently vouched in all of these counties).

213 Tilia grandifolia.

36 Hereford. Babington ms.
43 Radnor. Ley cat,
65 York n. west. Ward sp.
N.B. These are the only three counties known to me, as resting on good authority in support of the true nativity of this Lime. It is recorded for many other counties, from West Cornwall to Moray, usually with indications in distrust of it being really an indigenous tree. In Surrey its leaves are much more damaged by spring frosts than are those of the *T. intermedia*. It has been confused with this latter; from which it is readily distinguished if seen in fruit.

214 Hyper. Androsæmum.

(*Androsæmum officinale*).

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 n.! Eastmond sp.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat. ...sp.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Carr sp.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey! Ellis sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Varenne ms.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east? "Wigg."
27 Norfolk east.
28 west.
32 Northton.
33 Gloster east?
34 west. Thwaites sp.
35 Monmouth. Ch. Bab. sp.
36 Hereford. Purchas cat.
37 Worcester. Prentice ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat. co.
41 Glamorgan. Moggridge sp.
42 Brecon.
43 Radnor.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
47 Montgomery. Robinson ms.
48 Merioneth.
49 Carnarvon! Gibson ms.
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
55 Leicester.
58 Chester!
59 Lanc. south. F.M. Webb cat.
60 west.
61 York s. east.
62 n. east.
63 s. west.
64 m. west. Tatham cat.†
65 n. west.
66 Durham.
69 Westmoreland.
70 Cumberland. Otley sp.
71 Man. Jowett sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
98 Argyle. Gordon ms.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north.
06 Ross. Gordon ms. East? (56 68 81 83 *85* 87).

215 Hyperic. perforatum.

Counties all, except 42 53 71 87 95 97 98 99 101 to 105 107 108 110 [111]. 112 Shetland?

216 H. quadrangulum.
(*H. tetrapterum*).

Counties all, except 35 42 44 72 74 78 84 97 98 105 107 to 112. Probably occurs in all up to 100 or 106.

216 Hypericum dubium.
(*H. maculatum*).

1 Corn. w. G. S. Gibson ms.
2 east. Hore sp.
3 Devon south. Briggs.
4 north!
6 Somerset north.
7 Wilts north. Flower cat.
8 south. Flower cat.
11 Hants south!
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. J. L. Warren.
19 Essex n. G. S. Gibson sp.
20 Herts.
23 Oxford. Beesley cat.
25 Suffolk east.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Pryor.
30 Bedford. Hillhouse cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Watkins sp.
36 Hereford. Purchas sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Babington ms.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Ley rec.
44 Carmarthen. Motley cat.
46 Cardigan. Babington sp.
47 Montgomery. Melvill cat.
48 Merioneth. Russell sp.
49 Carnarvon.
50 Denbigh. Fisher sp.
51 Flint.
52 Anglesea.
54 Linc. n. F. A. Lees rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 York s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 North. R. B. Bowman sp.
68 Cheviotland.
69 Westmor. Miss Beevor sp.
70 Cumberland.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Brotherston rec.
81 Berwick.
85 Fife?
87 Perth west.
88 mid. H. M. Balf. sp.
89 east. (F. B. White).
98 Argyle.
00 Arran. G. Macnab sp.
[10 21 73]. (109).

217 Hypericum bæticum.

(*H. undulatum.*)

1 Corn. west. Cunnack cat.
2 east. Briggs sp.
3 Dev. south. Briggs sp.
4 north. T. Wainwright.

218 Hyperic. humifusum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.

14 Sussex east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ley cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
47 Montgomery. Ley cat.
48 Merioneth.
49 Carnarvon!
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Baker sp.
66 Durham.
67 Northumb. Thompson sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland! Baker cat.
71 Man. Forbes cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh! Balfour cat.
85 Fife. G. Macnab sp.
86 Stirling. Duthie sp.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
97 Westerness!
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
09 Caith. Brown Campst. cat.

219 Hyperic. linariifolium.

1 Corn. west. Bailey ms.
2 east?
3 Devon s. Goulding sp.

220 Hypericum pulchrum.

Counties all, except 31 42 74; possibly absent from no. 31.

221 Hypericum hirsutum.

3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
45 Pembroke. Babington cat.
47 Montgomery. Melville cat.
48 Merioneth. (Reeves.)
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Parsons rec.
53 Lincoln south Fowler rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. F. M. Webb.
60 Lanc. west! Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberl. Robinson sp.
73 Kirkcudbright. Gray cat.
75 Ayr. James Wilson sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid! E. Twining sp.
89 east!
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. "Mr. Martin."
00 Clyde-isles. Hennedy cat.
06 Ross e. "Rev. G. Wilson."
[58 72].

222 Hyperic. montanum.

1 Corn. west.

2 Corn. east.
3 Devon south. Briggs cat.
6 Som. north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants s. H. & J. Groves sp.
12 n. Townsend cat.
13 Sussex west. Rev. H.E.Fox.
16 Kent west!
17 Surrey!
20 Herts? "once found."
22 Berks. Britten cat.
23 Oxford. Harris sp.
24 Bucks. Britten cat.
27 Norfolk east.
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Watkins cat.
36 Hereford. Purchas cat.
37 Worcester.
39 Stafford.
40 Salop. Miss E. Jones sp.
44 Carmarthen.
45 Pembroke. Babington cat.
47 Montgomery.
48 Merioneth.
49 Carn. J. E. Bowman ms.
50 Denbigh. J. E. Bowman cat.
51 Flint. J. E. Bowman sp.
52 Anglesea.
54 Lincoln north. Fowler rec.
56 Notts.
57 Derby. Howitt cat.
60 Lanc. west. Simpson sp.
62 York n. east. Baker cat.
63 s. west. Lees cat.
64 m. west. Tatham cat.
66 Durham. R. B. Bowman sp.
69 Westmoreland!
70 Cumberland.
75 Ayr.

223 Hypericum elodes.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Briggs.
5 Som. south. Coleman cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Bloomfield sp.
15 Kent east. J. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
18 Essex south.
22 Berks!
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Bloomfield.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
35 Monmouth. Watkins sp.
36 Hereford. "Willmott."
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. C. Jones.
47 Montgomery. Ley cat.
48 Merioneth. Pools ms.
49 Carn. J. E. Bowman ms.
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
54 Lincoln north. Fowler rec.
55 Leicester?
57 Derby. Whittaker sp.
58 Chester. J. L. Warren cat.
59 Lanc. south. Tudor ms.
61 York s. east.

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62 York n. east.
63 s. west. Carr rec.
64 m. west. Ch. Bab. ms.
69 Westmoreland.
70 Cumberland. Otley sp.
71 Man. Forbes sp.
73 Kirkcudbright, Gray sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
98 Argyle. Hooker sp.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
03 Eb. south. Balfour sp.
11 Orkney? Neill, &c.
[21 29; extinct].

225 Acer campestre.

3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 Som. north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent east. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west.
27 Norfolk east. Stock cat.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
43 Radnor. Miss Atwood ms.
44 Carmarthen. Motley cat.
46 Cardigan. (Ar. Bennett).
47 Montgomery. Melville cat.
48 Merioneth. Britten.
49 Carnarvon. Robinson cat.
50 Denbigh! Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. F. M. Webb.*
59 Lanc. south. Webb cat.†
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Bowman sp.
69 Westmoreland. Britten. (1 2 68 70 71 76 77 78 80 81 83 84 85 89 90 98 100 109; given as a native of 83 84 85, in the Flora of Edinburgh).

226 Acer Pseudo-platanus.

N.B. Given as native of Haddington, Edinburgh, and Fife, in the Flora of Edinburgh; also the same in the

old Flora of Northumberland and Durham. In the New Flora of N. and D. it is named as an "alien"; and such is its proper character in the counties of the Forth. As an alien, it is reported for most of the counties, from Cornwall to Caithness.

227 Erodium maritimum.

1 Corn. west! Cunnack cat.
2 east. Pascoe sp.
3 Devon south. Briggs sp.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites sp.
9 Dorset. Mansel-Pleydell sp.
10 Wight! More cat.
11 Hants south?
14 Sussex east. Extinct?
15 Kent east. Extinct?
17 Surrey. W. Reeves ms.
27 Norfolk east.
28 west.
34 Gloster west. Winch sp.
36 Hereford. Purchas sp.
37 Worcester. E. Lees sp.
39 Stafford.
40 Salop.
41 Glamorgan.
45 Pembroke. Babington cat.
46 Cardigan. Sandys sp.
48 Merioneth.
49 Carnarvon.
50 Denbigh. Bowman cat.
51 Flint. Bowman sp.
52 Anglesea!
56 Notts. Howitt sp.
58 Chester? Extinct?
69 Westmoreland.
70 Cumberland.
71 Man. Forbes sp.
74 Wigton. Balfour sp.
(66 "ballast hills.")

228 Erodium cicutarium.

Counties all, except 42 43 47 69 72 74 78 79 87 97 98 104 105 108 [111] 112.

229 Erodium moschatum.

1 Corn. west. Gibson sp.
2 east. Briggs cat.
3 Devon south. Trevelyan sp.
4 north. Maw cat.
5 Som. south. Gifford sp.
6 north.
9 Dorset. Pleydell cat.
34 Gloster west. Thwaites sp.
37 Worcester. (E. Lees).
45 Pembroke. Babington cat.
52 Anglesea?
N.B. Reported from numerous other counties, but almost certainly mis-reported or not indigenous in them. (14 20 30 32 49 80).

230 Geranium sylvaticum.

28 Norfolk west?
37 Worcester. E. Lees sp.
38 Warwick.
39 Stafford.
40 Salop.
49 Carnarvon. Robinson cat.
57 Derby.
59 Lanc. south. Dugdale sp.
62 York n. east.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland! Beevor sp.
70 Cumberland!

72 Dumfries. Gray ms.
73 Kirkcudbright. Gray ms.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
84 Linlithgow.
85 Fife.
86 Stirling. Farquharson cat.
87 Perth west ! Syme cat.
88 mid ! Worsley cat.
89 east !
90 Forfar !
91 Kincardine. Syme cat.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
97 Westerness !
98 Argyle. F. M. Webb rec.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Grieve cat.
05 Ross west. (Druce).
06 east. Gordon ms.
08 Sutherland west. Ley.
09 Caithness. Grant cat.
[1 25 27 28 55 111; erroneous or insufficiently vouched.]

231 Geranium pratense.

2 Corn. east ?
3 *Devon south.* Briggs cat.†
6 Som. north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Townsend ms.
12 north.
14 Sussex east.
17 Surrey !
18 Essex south.
19 north.
20 Herts. Mrs. Lilly.
21 Middlesex !
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
28 Norf. west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford. Miss Foster sp.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford !
40 Salop.
41 Glamorgan ?
42 Brecon.
46 Cardigan. Atwood sp.
49 Carnarvon. Robinson cat.
50 Denbigh. Bowman cat.
51 Flint.
52 Anglesea.
53 Lincoln south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester !
59 Lanc. south. Goodlad hb.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland !

70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall cat.
87 Perth west! Syme cat.
88 mid! Miller cat.
89 east!
90 Forfar.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Ebudes south. Balfour cat.
03 mid. Ross rec.

232 Geranium pyrenaicum.

2 Corn. east. Briggs sp.†
3 Devon south. Briggs cat.†
6 Som. north. French sp.
7 Wilts north. Flower cat.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
11 Hants south?
12 north?
13 Sussex west. Borrer cat.†
14 east. Roper.
17 Surrey! Occasional.†
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks. Mrs. Russell sp.
23 Oxford. H. W. Trott sp.
24 Bucks. Mrs. James sp.
25 Suffolk east. Notcutt sp.
26 west. Henslow ms.
27 Norfolk east. Cooper sp.
28 west. Miss Bell sp.
29 Cambridge. Coleman ms.
30 Bedford. Hillhouse cat.
32 Northton. Notcutt sp.
33 Gloster east. Prentice ms.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Bidwell sp.
41 Glamorgan.
44 Carmarthen?
49 Carnarvon. Robinson cat.
50 Denbigh. Gibson ms.
53 Lincoln south. Bloxam ms.
54 north. Lees rec.*
57 Derby. Bailey rec.
61 York s. east.
62 n. east. "native."
63 s. west.
64 m. west. "native."
65 n. west. "native."
66 Durham. "ballast hills."
70 Cumberland.
75 Ayr. Duncan cat.
80 Roxburgh. Brotherston rec.
83 Edinburgh. Alien.
85 Fife. Miss Lonsdale.
88 Perth mid. (F. B. White).
89 east! Escape?
95 Elgin. "Reported."
96 Easterness. Stables sp.†
00 Clyde-isles.

N.B. The above is to be taken as a full enumeration of counties, without separating the erroneous and those in which this Geranium is probably alien. In the 'Botany of North Yorkshire' it is

given as truly "native;" tacitly so taken in some few other counties also.

233 Geran. rotundifolium.

2 Corn. east. Briggs sp.
3 Devon south! Hore sp.
6 Som. north! Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
16 Kent west.
17 Surrey. Boswell Syme sp.
18 Essex south.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Bloxam sp.
25 Suffolk east.
29 Cambridge. Babington ms.†
30 Bedford. Newbould ms.
32 Northton. Druce ms.
34 Gloster west! Stephens sp.
37 Worcester. (E. Lees).
41 Glamorgan. Barnard ms. (58 66 67 70 82 83). [20 36 40 41 50 57 63 64; insufficiently certified; mostly erroneous ?]

234 Geranium pusillum.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks!
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts!
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north!
55 Leicester. Bloxam cat.
56 Notts.
58 Chester.
59 Lanc. south. Dugdale ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.

70 Cumberland. "Benson."
77 Lanark.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife.
86 Stirling. Duthie cat.
88 Perth mid. (F. B. White).
90 Forfar.
94 Banff. "Rare."
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
03 Ebrides mid. Ross cat.
N.B. Not rare in England; rare or overlooked in Scotland.

235 Geranium molle.

Counties all, except 42 74 97 98.

236 Geranium dissectum.

Counties all, except 35 42 74 97 98 104 105 108 110 112.

237 Geran. columbinum.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend ms.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent east. G. E. Smith cat.
16 Kent west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. "v. r."
26 west. Bloomfield ms.
27 Norfolk east. Stock cat.
28 west. Bell sp.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarvon!
50 Denbigh. Leefe sp.
51 Flint.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north!
56 Notts.
57 Derby!
58 Chester.
59 Lanc. south.
60 west. Simpson sp.
62 York n. east. Baker cat.
63 s. west.
64 m. west. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Storey sp.
69 Westmoreland!

70 Cumberland. "Robinson!"
75 Ayr. Duncan cat.
80 Roxburgh. One locality.
81 Berwick. One locality.
83 Edinburgh. Lloyd sp.
85 Fife. Syme sp.
86 Stirling. Duthie sp.
88 Perth mid. Miller.
90 Forfar.
(29). [77 99].

238 Geranium lucidum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south.
12 north.
13 Sussex west. Borrer cat.†
15 Kent east. G. E Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex! Twining sp.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Skepper cat.
27 Norfolk east.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east.
34 west. Thwaites sp.
35 Monmouth. Ch. Bab. ms.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
42 Brecon. Miss Huish rec.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Butler sp.
48 Merioneth. Britten.
49 Carnarvon! Winch ms.
50 Denbigh! J. E. Bowman cat.
51 Flint.
52 Anglesea.
53 Lincoln south. Fowler rec.
55 Leicester.
56 Notts. Howitt sp.
57 Derby. Ch. Babington sp.
59 Lanc. south. Dugdale sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. west. Tatham cat.
65 n. w. R. B. Bowman sp.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
84 Linlithgow.
85 Fife. Lawson ms.
86 Stirling.
87 Perth west. Syme cat.
88 mid.
89 east.
90 Forfar.
91 Kincardine. Syme cat.

92 Aber. south. Dickie cat.†
93 north. Dickie flo.
96 Easterness!
98 Argyle. Gordon ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
06 Ross east. Gordon cat.
[60 111 Orkney; Lowe's list].

239 Geran. Robertianum.

Counties all, except 42 74 97 99 110 112.

240 Geran. sanguineum.

1 Corn. west. Cunnack cat.
3 Devon south. Abraham ms.
6 Som. north. Young sp.
11 Hants south. Towns. cat.
19 Essex north.
25 Suffolk east.
26 west. Skepper ms.
28 Norfolk west?
29 Cambridge. Babington cat.
30 Bedford.
34 Gloster west! Thwaites sp.
35 Monmouth.
36 Hereford.
37 Worcester. Bagnall ms.
39 Stafford.
40 Salop.
41 Glamorgan.
43 Radnor. Purchas ms.
44 Carmarthen. Motley cat.
47 Montgom. J.E. Bowman ms.
48 Merioneth. Butler sp.
49 Carnarvon. Bloxam ms.
50 Denbigh. J.E. Bowman cat.
51 Flint.
52 Anglesea.
53 Lincoln south?
54 north.
56 Notts.
57 Derby.
58 Chester! Warren flo.
59 Lanc. south. Extinct?
60 west. Simpson sp.
62 York n. east. Baker sp.
63 s. west.
64 m. west. Tatham sp.
66 Durham. Norman cat.
67 Northumb. R.B. Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
73 Kirkcudbright. Gray ms.
75 Ayr. Duncan cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme sp.
86 Stirling. Duthie sp.
88 Perth mid.
89 east (F. B. White.)
90 Forfar.
91 Kincardine. Croall sp.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
03 Ebudes mid. Ross cat.
06 Ross east. Gordon ms. (24).

241 Impatiens fulva.

8 Wilts. "quite naturalised." Sussex. Miss Carr sp.
12 Hants north. Towns. cat.
17 Surrey! Salmon sp.
21 Middx. Twining sp.
24 Bucks. Britten ms.

N.B. From America, but thoroughly established; perhaps more so than the *Noli-me-tangere*, although this latter has been supposed indigenous in Wales and North England.

242 Im. Noli-me-tangere, L.

6 Som. north. Flower cat.*
9 Dorset. Salter cat.†
17 Surrey.*
21 Middlesex.*
38 Warwick. Kirk cat.†
39 Stafford. Garner.*
48 Mer. J.E.Bowman. "wild."
49 Carnarvon. Newbould.
51 Flint. Robinson cat.†
57 Derby. Howitt cat.†
58 Chester. Warren.*
59 Lanc. south. Woods.
61 York s. east. Sup. Fl. York.*
62 n. east. Baker.*
63 s. west. Lees cat.*
64 m. west. Lees cat.*
67 Northumb. New Flo. N.D.*
68 Cheviot. Richardson sp.*
69 Westmor. Borrer. wild.
70 Cumberland. Borrer ms.*
77 Lanark. Hennedy cat.*
80 Roxburgh. Murray.*
83 Edinburgh. Flo. of Edinb.*
90 Forfar. Croall.*
[8 29 47].

Note. If the *Noli-me-tangere* be really native here, it must be so very locally; say in North Wales and Westmoreland.

243 Oxalis Acetosella.

Counties all, except 31 42 53 74 112; it may be really absent from the first and last of these counties.

245 Euonymus europæus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts south. Flower cat.
8 north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norf. east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bree ms.
39 Stafford!
40 Salop! Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan.
47 Montgom. J.E. Bowman ms.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J.E. Bowman ms.†
52 Anglesea.
53 Linc. south. Fowler rec.

54 Linc. north. Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby!
58 Chester. Windsor sp.
60 Lanc. west. Bailey rec.
62 York n. east. Baker "sp."
63 s. west. F. A. Lees sp.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. R.B.Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
73 Kirkcudb. "certainly wild."
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinb. "apparently wild."
(69 77 84 65 109).

246 Rhamnus catharticus.

3 Devon south. Error?
6 Som. north. Collins ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Bromf. ms.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. G. E. Smith cat.
16 west. Groves sp.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norf. east.
28 Norf. west. Notcutt cat.
29 Cambribge. Fordham sp.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Newb. ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. "Robinson."
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Still there?
69 Westmoreland!
72 Dumfries?
(94 "Dr. Todd." 100 Prof. Balfour sp.)

247 Rhamnus Frangula.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Collins ms.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Baker cat.
13 Sussex west! Borrer cat.

14 Sussex east. Coleman cat.
15 Kent east. Smith cat.
16 west!
17 Surrey! Rev. E. Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex. Hind cat.†
22 Berks!
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west.
27 Norf. east.
28 west. Miss Bell ms.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
34 Gloster west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Lloyd sp.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman sp.
51 Flint. Robinson cat.
53 Lincoln south! Fowler.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. "Holland."
59 Lanc. south! Webb cat.
61 York s. east.
62 n. east.
63 s. west. F. A. Lees cat.
64 m. west. F. A. Lees cat.
65 n. west.
69 Westmoreland.
70 Cumberland! Baker cat.
75 Ayr.
93 Aber. nor. "likely native."
95 Elgin. "Dr. Innes."
06 Ross east. Planted?
07 Suth. east. Planted?

248 Spartium scoparium.

Counties all, except 74 110 (111) 112; apparently indigenous northward to Sutherland and Caithness; and doubtless to be found in every county south from those two.

249 Ulex europæus.

Counties all, except 42 74 103 105. To the North Isles it has likely been introduced by sowings of seed; as is also the case with many other of its localities in North Britain, especially those in the North Highlands.

250 Ulex "nanus."

All the English counties, except 19 23 30 31 43 44 45 47 48 51 53 54 60 61. In Scotland, recorded for 73 74 75; [also in 81 83 85 90 95]. This area includes the two segregates, which of late have been recorded apart as under.

250 Ulex eu-nanus.

8 Wilts south. Rogers.
9 Dorset. Pleydell cat.
10 Wight! Stratton sp.
11 Hants south. Townsend ms.
12 north! Baker cat.
13 Sussex west! Baker cat.
14 east. Carr sp.
15 Kent east. Baker.

16 Kent west. Groves rec.
17 Surrey!
20 Herts. R. A. Pryor.
21 Middlesex!
22 Berks!
32 Northton. Druce rec.
34 Gloster west?
39 Stafford. F. A. Lees rec.
48 Merioneth. (Reeves).
[27 63 64 66; doubtful].

250 Ulex Gallii.

1 Corn. west!
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
6 Som. south.
7 Wilts north. Preston ms.
9 Dorset. Pleydell cat.
10 Wight. More ms.
11 Hants south.
14 Sussex east. Roper.
17 Surrey!
22 Berks.
25 Suff. east. Purchas ms.
27 Norfolk east. Bailey rec.
29 Cambridge?
34 Gloster west. Purchas sp.
35 Monmouth.
36 Hereford. Purchas sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas sp.
40 Salop. Newman ms.
41 Glamorgan.
43 Radnor. Newman sp.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
47 Montgomery. Ley cat.
48 Merioneth.
49 Carnarvon. Atwood sp.
50 Denbigh. Stratton ms.
55 Leicester. Mott.
57 Derby. Whittaker sp.
58 Chester! Warren cat.
59 Lanc. south. Dugdale sp.
62 York n. east.
63 s. west. F. A. Lees cat.
64 York m. west. A. F. Lees cat.
65 n. west.
67 Northumb. Oliver sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland. Addison sp.
71 Man. "Babington."
73 Kirkcudbright. Hennedy.
74 Wigton. Balfour sp.
75 Ayr. Arnott ms.
80 Roxburgh. Brotherston rec.
Galloway. Lloyd sp.
(92 "a solitary plant." 100).

251 Genista tinctoria.

1 Corn. west! *v. humifusa.*
3 Devon south?
4 north?
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north!
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.

28 Norfolk west. Bell ms.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Atwood ms.
46 Cardigan. Attwood ms.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. R. Brown ms.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Miss Pringle sp.
69 Westmoreland!
70 Cumberland. Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
80 Roxburgh. Brotherston rec.
81 Berwick. Embleton sp.
83 Edinburgh?

252 Genista pilosa.

1 Cornwall west! Cunnack sp.
14 Sussex east. Wallis sp.
15 Kent east. G. E. Smith cat.
26 Suff. west. Bloomfield ms.
37 Worcester. Extinct.
45 Pembroke. E. Lees sp.
[39 48 69; errors?]

253 Genista anglica.

Counties all, except 5 or 6 31 33 42 47 48 60 71 74 75 76 78 84 98 to 105 107 to 112. 32 extinct?

254 Ononis arvensis.

Counties all, except 31 42 47 53 74 97 101 103 104 105 107 109 to 112.

255 Ononis spinosa.

(*O. campestris*).
(*O. antiquorum*).

1 Corn. east. Pascoe cat.
3 Devon south. Torquay flo.
4 north. Rav. flo.
5 Som. south. J. Poole ms.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Bromf. herb.
12 north. Clarke.
13 Sussex west. Borrer cat.
14 east. Tonb. flo.
15 Kent east! G. E. Smith cat.
16 west. Tonb. flo.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. W & C. flo.
21 Middlesex! Hind cat.

22 Berks. Britten flo.
23 Oxford. Beesley cat.
24 Bucks. Britten v. sp.
25 Suffolk east. Skepper flo.
26 west. Henslow.
27 Norfolk east. Munford.
29 Cambridge. Babington cat.
30 Bedford. Abbot flo.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas flo.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Gutch add.
45 Pembroke. Atwood ms.
49 Carnarvon. (Reeves).
51 Flint? Wats. mem.
53 Linc. south? Wats. mem.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts. Howitt flo.
57 Derby. Bloxam ms.
58 Chester. J. L. Warren cat.
59 Lanc. south. F. M. Webb cat.
61 York s. east. Moore ms.
62 n. east. Baker cat.
63 s. west. Moore ms.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. New flo.
67 Northumb. New flo.
68 Cheviotland. New flo.
69 Westmoreland. Aiton.
71 Man. Forbes cat. "v.r."
72 Dumfries. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Goldie to Macnab sp.
81 Berwick. Border flo.
82 Hadd. Edin. Bot. cat. "5."
83 Edinburgh. Balfour flo.
85 Fife? Edin. Bot. cat. "5."
90 Forfar? Gard. flo.
99 Dunbarton? Hooker sp. [10].

N.B. The habitats of this species and the preceding *Ononis* are inextricably confused in books; nor can I trust my own notes and lists of years past with any confidence of the names having been then rightly applied. The fragments sent to me as *spinosa*, being branchlets without roots or pods, are unsatisfactory. Under these uncertainties all the counties from my compiled notes are given above, in connexion with the authorities for them.

256 Ononis reclinata.

3 Devon s. J. H. Rossall rec.
74 Wigton. Graham.*

257 Anthyllis vulneraria.

Counties all, except 18 42 43 53 74 75 78 86 97 98 105 107. This can scarcely be classed among the "common" plants although it is here indicated as occurring in 92 counties, and these including the northern and southern extremes of Britain.

257 Anthyllis Dillenii.

1 Corn. west! Cunnack sp.
2 east. Pascoe cat.
3 Devon south. Briggs cat.
4 north. Wainwright.
14 Sussex east. J. L. Warren.
41 Glamorgan.
45 Pembroke.

52 Anglesea. Crotch sp. [69 112].

258 Medicago sylvestris.

26 Suff. west. Babington sp.
27 Norf. east. Eng. Bot. 3.
28 west. Eng. Bot. 3.
29 Cambridge. Hort. sp.

259 Medicago falcata.

25 Suff. east. Bloomfield.
26 west. Bunbury sp.
27 Norf. east. Kirk sp.
28 west. G. S. Gibson ms.
29 Cambridge. Hort sp.
[3 6 9 13 15 17 (19) 20 39 41 62 (66 67 70); all these either erroneous or insufficiently vouched, or non-indigenous habitats].

260 Medicago lupulina.

Counties all, except 35 42 43 72 73 74 88 97 101 103 104 107 108 110 (111) 112; doubtless occurring in all up to 100 or higher.

261 Medicago maculata.

1 Corn. west!
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Rogers sp.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Miss Bell sp.
11 Hants south. R. A. Pryor.
13 Sussex w.! J. L. Warren cat.
14 east. Hall cat.
15 Kent east! G. E. Smith cat.
16 Kent west!
17 Surrey! Ellis ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
21 Middlesex! Bell ms.
23 Oxford.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hemsted.
32 Northton. Druce.
34 Gloster west! Thwaites cat.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
45 Pembroke. Babington cat.
49 Carnarv. J. E. Bowman ms.
50 Denbigh?
52 Anglesea.
54 Linc. north. Fowler rec. †
55 Leicester.
56 Notts.
58 Chester. F. M. Webb.
62 York n. east. "native."
66 Durham. F. A. Lees ms.†
67 Northumb. "native."
(59 63 68 78 80 85 87).

262 Medicago denticulata.

1 Corn. west. Bailey ms.
2 east. Briggs cat.
3 Devon south. Goulding sp.
8 Wilts south
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
13 Sussex west. Trevelyan sp.
14 east. Maw sp.
15 Kent east. G. E. Smith cat.
16 west. Syme.
18 Essex south. Syme sp.
19 north.
25 Suff. east. Babington sp.
27 Norfolk east.

28 Norfolk west.
62 York n. east.
(17 20 21 36 37 58 59 63 64 66 78 80 85 92; alien or casual in these counties, and perhaps the same in at least some of those named above).

263 Medicago minima.

15 Kent east. Brent sp.
16 west. G. E. Smith ms.
17 Surrey. Twining sp.
18 Essex south.
19 north. Varenne ms.
25 Suff. east. Notcutt sp.
26 west. Bunbury sp.
28 Norf. west. Wardale sp.
29 Cambridge. Babington cat. [3 6 41]. (66).

264 Melilotus officinalis.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.†
3 Devon south! Briggs cat.†
4 north.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Trevelyan sp.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent east! G. E. Smith cat.
16 west. Dennes ms.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Bidwell sp.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop.
41 Glamorgan.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
54 Lincoln north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester!
59 Lanc. s. F. M. Webb cat.
60 west!
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.†
64 m. w. F. A. Lees cat.†
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. "colonist."
68 Cheviotland. "colonist."
69 Westmoreland. Gough.
70 Cumberland?
77 Lanark. Hennedy cat.†
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.

85 Fife! Introduced?
87 Perth west. Syme cat.† (80 86 88 90 91 92 95 109; introduced in these, and likely to some of the other counties also).

264*Melilotus arvensis.

3 Devon south. Briggs.
9 Dorset.
10 Wight. More.
16 Kent west. Syme.
18 Essex north. G. S. Gibson.
19 south. Syme.
20 Herts.
21 Middlesex. J. L. Warren.
26 Suffolk west. Babington.
29 Cambridge. C. C. Babington.
33 Gloster east.
36 Hereford.
41 Glamorgan. Jos. Woods.
58 Chester. J. L. Warren.
59 Lanc. south. H. S. Fisher.
62 York n. east. Baker.
76 Renfrew.
85 Fife. Syme.

265 Melilotus vulgaris.
(*M. leucantha*).

N.B. Few botanists indeed report this as a truly indigenous plant; and usually it is treated only as an alien or casual. My notes for its counties are thus:—(3 5 or 6 9 10 11 13 14 15 17 18 19 20 21 23 24 26 27 28 32 33 34 36 38 39 41 44 58 59 62 63 64 65 66 67 68 71 75 80 81 82 83 85 87 90 95).

266 Trigonella ornithopodioides.

1 Corn. west. Curnow sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Gifford sp.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Pamplin ms.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Bloomfield.
15 Kent east. G. E. Smith cat.
16 west. Holman sp.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex.
22 Berks.
25 Suffolk east. Bell sp.
27 Norfolk east. Fitt sp.
28 west.
34 Gloster west. Thwaites sp.
37 Worcester. Fraser sp.
52 Anglesea.
58 Chester. Bean sp.
75 Ayr. G. Macnab sp.
76 Renfrew.
83 Edinburgh. Twyman sp.
85 Fife.
[7 23 50 (62) 64 70 90; authorities insufficient].

267 Trifolium repens.

Counties all, except 42 74.

268 Trifol. subterraneum.

1 Cornwall west. Warren sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 Som. north. Thwaites cat.
8 Wilts south.
9 Dorset. Pleydell cat.

10 Wight!
11 Hants south. Notcutt cat.
12 north. Townsend cat.
13 Sussex west.
14 east. Roper cat.
15 Kent east. G. E. Smith cat.
16 west. Macnab sp.
17 Surrey! Ellis ms.
18 Essex south. Varenne ms.
19 north! Varenne sp.
20 Herts.
21 Middlesex!
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Bell sp. don.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
34 Gloster west. Thwaites cat.
38 Warwick. Kirk ms.
46 Cardigan. Atwood sp.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
55 Leicester.
56 Notts.
58 Chester. R. Brown.
(62 66 75).

269 Trifol. ochroleucum.

18 Essex south. Varenne ms.
19 north. Christy sp.
20 Herts. Coleman sp.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
(53 64 66). [3 9 11 16 17 21 37 39 49 51 59; insufficiently vouched; mostly errors?]

270 Trifolium Molinerii.

1 Cornwall west. Hore sp.

271 Trifolium pratense.

Counties all, except only 74, doubtless through lack of records.

272 Trifolium medium.

Counties all, except 12 35 42 47 48 71 74 75 97 98 105 107 to 110. Much less frequent than *pratense;* indeed it might almost unite with the "not common" plants.

274 Trifolium maritimum.

1 Cornwall west. Cunnack.
2 east?
3 Devon south?
5 Som. south. Clark sp.
6 north. Trevelyan sp.
9 Dorset. Ray sp. Payne sp.
10 Wight. Groves rec.
11 Hants south. Streatfield sp.
13 Sussex west. Borrer ms.
14 east. Roper.
15 Kent east. Syme sp.
16 west. Syme sp.
18 Essex south. Syme sp.
19 north. Varenne sp.
27 Norfolk east. Fitt sp.
28 west.
34 Gloster west. Thwaites cat.
35 Monmouth. Purchas sp.
41 Glamorgan. Pleydell, 1865.
48 Merioneth?
54 Lincoln north. (Searle).

70 Cumberland ?
(66 67; on ballast). [25].

275 Trifolium arvense.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Ravenshaw.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Trevelyan sp.
14 east. Coleman cat.
15 Kent east! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester! Warren cat.
59 Lanc. south. F. M. Webb cat.
60 west. Linton cat.
61 Yorks. s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Lake Lanc. F. A. Lees rec.
70 Cumberland.
71 Man. Macnab cat.
72 Dumfries. Gray cat.
73 Kircudbright. Gray cat.
75 Ayr. Balfour sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkird. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme cat.
87 Perth west!
88 mid ?
89 Perth east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 Aber. north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.

96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
06 Ross east. Gordon cat.

276 Trifolium scabrum.

1 Corn. west. Bailey ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Towns. cat.
13 Sussex w. J. L. Warren cat.
14 east. Hall cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex east.
19 west.
23 Oxford. Beesley cat.
25 Suffolk east. Stock sp.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
33 Gloster east. Duthie sp.
34 west. Thwaites sp.
37 Worcester.
38 Warwick. Kirk cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas sp.
49 Carnarvon. Robinson cat.
52 Anglesea. J. E. Bowman ms.
54 Linc. north. Fowler rec.
62 York n. east.
64 m. west.
65 York n. west.
66 Durham.
67 Northumb. Storey sp.†
68 Cheviot. Embleton sp.
82 Haddington.
83 Edinburgh.
85 Fife. Lloyd sp.
90 Forfar. Croall sp.
91 Kincardine. Gardiner sp.

[21 50 58; these three need verification]. *T. striatum* is mislabled *scabrum* occasionally.

277 Trifolium striatum.

1 Corn. west. Cunnack sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers rec.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. E. Burton sp.
12 north. R. A. Pryor.
13 Sussex west. Borrer cat.
14 east. Purchas "!"
15 Kent east. G. E. Smith cat.
16 west. Groves.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks.
23 Oxford. Beesley ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton.
34 Gloster west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Bromwich sp.
39 Stafford.

40 Salop. Leighton cat.
46 Cardigan. Atwood sp.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Brown rec.
54 north. F. A. Lees rec.
55 Leicester. Bloxam sp.
56 Notts. Carrington sp.
57 Derby. Ch. Bab. ms.
58 Chester. F. M. Webb sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Parsons rec.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland. Tate ms.
69 Lake Lanc. Bailey rec.
70 Cumberland. "Chambers."
71 Man. Forbes to Brand. sp.
75 Ayr. Duncan cat.
80 Roxburgh.
81 Berwick.
82 Haddington.
83 Edinburgh! Maughan sp.
84 Linlithgow.
85 Fife. Syme sp.
86 Stirling!
87 Perth west!
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Gardiner sp.
91 Kincardine. Gardiner sp.? (111 Neill's Tour).

277 Trifolium Bocconi.

1 Corn. Hore sp. Johns sp.

278 Trifolium glomeratum.

1 Corn. west. Scilly list.
2 Corn. east. Briggs cat.
3 Devon south. Hore sp.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Towns. cat.
14 Sussex east. Borrer.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
17 Surrey!
18 Essex south.
21 Middlesex. Extinct?
25 Suffolk east. Stock sp.
27 Norfolk east. Paget sp.
28 west. Trimmer.
[41 44 49 50 55; errors?]
(66; on ballast hills).

278 Trifolium strictum.

1 Corn. Johns sp. Pascoe sp.
52 Anglesea? Very doubtful.

279 Trifolium suffocatum.

1 Corn. west. Cunnack cat.
2 east?
3 Devon south. Hore sp.
6 Som. north. Extinct?
10 Wight. More sp.
11 Hants south. E. Burton sp.
13 Sussex west. (Reeves.)
14 east. Borrer.
15 Kent e. G. E. Smith cat.
25 Suffolk east. Stock sp.
27 Norfolk east. G. Fitt sp.
28 west.
52 Anglesea! Tudor sp.
[18 "Irvine." 51 Error].

280 Trifolium fragiferum.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south.
4 north. Maw cat.

5 Som. south.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Rogers.
9 Dorset. Miss Twining sp.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
15 Kent e! G. E. Smith cat.
14 east. Hall cat.
16 west!
17 Surrey! Wood ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley ms.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norf. east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. F. A. Lees sp.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. Bowman cat.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester. Bloxam cat.
56 Notts. Mrs. Russell sp.
58 Chester! Sansom sp.
59 Lanc. south. Tudor sp.
60 west. Syme.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west.
65 n. west. Parsons rec.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Oliver sp.†
69 Westmoreland.
75 Ayr. Duncan cat.
81 Berwick.
82 Haddington. Twynam sp.
83 Edinburgh.
85 Fife.

281 Trifolium procumbens.

Counties all, except 42 47 61 73 74 78 97 98 99 104 107 to 112. (111 Orkney; Neill's Tour).

282 Trifolium minus.

Counties all, except 32 35 49 50 57 71 72 73 74 90 95 96 97 103 105 to 108 110 112; in some of these counties probably it has been recorded under name of *filiforme*. Likely to be found in every county up to 109, if not farther (111).

282 Trifolium filiforme.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
17 Surrey! Dyer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bromwich sp.
39 Stafford.
40 Salop.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
47 Montgomery. Melvill sp.
50 Denbigh.
52 Anglesea.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 York n. east. Nicolson sp.
63 s. west. Parsons rec.
64 m. west.
65 n. west. Ward cat.
66 Durham. Hort sp.
68 Cheviot. Embleton cat.
80 Roxburgh. Dyer sp.

[70 71 77 82 to 85 90 to 96 106; it is the *T. minus* in most of these counties; perhaps so, in all of them, as well as in some of those enumerated by name; so frequent has been the error of applying the name *filiforme* to examples of the species *minus*. I dare not trust to my own notes of past dates].

283 Lotus corniculatus.

Counties all, except 42 49 74; in all of which it will surely be found, if sought.

283 Lotus tenuis.

1 Corn. west!
2 east. Briggs sp.
3 Devon south. Briggs sp.
7 Wilts north. Flower cat.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Groves rec.
13 Sussex west. Borrer cat.
14 east. Ranking sp.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts.
21 Middlesex.
22 Berks.

24 Bucks. Britten cat.
25 Suffolk east. Skepper cat.
27 Norfolk east.
29 Cambridge. Babington cat.
31 Hunts. Blow rec.
32 Northton. Anderson ms.
33 Gloster east. Prentice cat.
34 west.
36 Hereford. Purchas cat.
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
39 Stafford.
44 Carmarthen.†
52 Anglesea.
53 Linc. south. F. A. Lees rec.
54 north. Fowler rec.
55 Leicester. Bloxam sp.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker sp.
64 m. west. Foggitt rec.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westm. F. A. Lees rec.
70 Cumberland!
80 Roxb. Brotherston rec.†
81 Berwick. Embleton sp.
82 Haddington.
83 Edinburgh! Lloyd sp.
84 Linlithgow.
85 Fife. I. B. Balfour ms.
87 Perth west.
90 Forfar.
91 Kinc. Mrs. Dickson sp.

284 Lotus major.

Counties all, except 42 74 95 96 97 104 to 112.

285 Lotus angustissimus.

1 Corn. west. Curnow sp.
2 east. Briggs cat.
3 Devon south! Banker sp.
11 Hants south. Bromf. sp.
14 Sussex east. Borrer.
16 Kent west. Newbould sp.
[6 B. G. 25 Suff. flo.]

285 Lotus hispidus.

1 Corn. west! Cunnack sp.
2 east. Hore sp.
3 Devon south. Briggs.
4 north. Hore ms.
9 Dorset. Pleydell sp.
11 Hants south. Townsend.

286 Astragalus glycyphyllus.

6 Som. north. "Mr. Clark."
7 Wilts north. Flower sp.
8 south.
9 Dorset. Pleydell, certain.
10 Wight. More cat.
13 Sussex west. Borrer ms.
15 Kent e. G. E. Smith cat.
16 west! Dennes ms.
17 Surrey! Brewer sp.
18 Essex south.
19 north. Varenne ms.
20 Herts.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.

38 Warwick. Bloxam ms.
39 Stafford. Douglas cat.
40 Salop. J. E. Bowman ms.
49 Carnarvon. Robinson cat.
50 Denbigh.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
55 Leicester. Coleman ms.
56 Notts.
Mersey ?
61 York s. east. Webster rec.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham.
67 Northumb. Makepeace sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright. Gray cat.
80 Roxburgh.
81 Berwick.
82 Haddington.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife ! Lawson ms.
86 Stirling. Duthie cat.
89 Perth east. Campbell sp.
90 Forfar. Gardiner sp.
91 Kincardine. Dickson ms.
93 Aber. north. Gordon sp.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.†
06 Ross east. Gordon cat.
[1 3 77 ; insufficiently vouched].

287 Astragalus hypoglottis.

8 Wilts south. Flower sp.
19 Essex north.
20 Herts. Fordham sp.
23 Oxford.
26 Suffolk west. Bunbury sp.
28 Norfolk west.
29 Cambridge. Harris sp.
30 Bedford.
32 Northton. Druce rec.
33 Gloster east. Roberts ms.
36 Hereford. "Wilmott."
37 Worcester.
53 Lincoln south.
54 north. Fowler rec.
55 Leicester.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
66 Durham. Norman cat.
67 Northum. R. B. Bowman sp.
68 Cheviot. Embleton sp.
73 Kirkcudbright.
75 Ayr.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Scott sp.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme sp.
89 Perth east.
90 Forfar. Gardiner sp.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
96 Ross east. Gordon cat.
07 Sutherland. Gordon ms.
[10 18 70].

288 Astragalus alpinus.

90 Forfar !
92 Aberdeen south !

289 Oxytropis uralensis.

74 Wigton. Balfour sp.
85 Fife !
90 Forfar.
98 Argyle.
06 Ross east.
08 Sutherland west !
09 Caithness. "R. Dick. sp."

290 Oxytropis campestris.

90 Forfar! Brand sp.

291 Ornithopus perpusillus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Trevelyan sp.
6 north. Rogers sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 White! More cat.
11 Hants south. Towns. cat.
12 north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Babington ms.
27 Norfolk east.
28 west. Cooper sp.
29 Cambridge. Harris sp.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Atwood ms.
43 Radnor. Ley cat.
44 Carmarthen.†
45 Pembroke. Babington cat.
46 Cardigan. Purchas cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon!
50 Denb! J. E. Bowman cat.
52 Anglesea.
53 Lincoln south!
55 Leicester.
56 Notts.
57 Derby.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. west. Leyland sp.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Extinct?
69 Westmoreland.
70 Cumberland.
71 Man. Forbes sp.
72 Dumfries. Gray cat.
73 Kircudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. G. Macnab sp.
77 Lanark. Hooker sp.
83 Edinburgh. Campbell sp.
85 Fife.
86 Stirling.
87 Perth west! Syme cat.
88 mid.
90 Forfar? Don only?
94 Banff.
95 Elgin. Gordon sp.
99 Dunbarton.

292 Arthrolobium ebracteatum.

1 Scilly islands. Native.
(63 S. W. York; casual).

293 Hippocrepis comosa.

3 Devon south.
6 Som. north. Trevelyan sp.
7 Wilts north. Miss Bell sp.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Pryor.
12 north. Bell ms.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! Ellis ms.
19 Essex north.
20 Herts. Coleman cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Bunbury sp.
27 Norfolk east.
28 west.
29 Cambridge. Harris sp.
30 Bedford.
32 Northton. Ley rec.
33 Gloster east. Roberts ms.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford.
40 Salop. "Bloxam."
41 Glamorgan. Barnard ms.
49 Carnarvon.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
56 Notts?
57 Derby! Howitt cat.
61 York s. east.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward sp.
69 Westmoreland. (Bailey.)
75 Ayr.
91 Kincardine. Miss Boswell, "apparently quite wild."

294 Onobrychis sativa.

6 Som. north. Collins ms.
7 Wilts north. Alexander ms.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
11 Hants south. Bromfield.
12 north. Bromfield.
14 Sussex e. J. L. Warren cat.
15 Kent e. G. E. Smith cat.
17 Surrey. Ellis sp.
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suffolk west. Babington ms.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
36 Hereford. "Wilmott."
37 Worcester. Bagnall ms.
38 Warwick. Bagnall ms.†
40 Salop. Bloxam ms.
41 Glamorgan. Barnard ms.†
Lincoln.
(3 10 13 14 16 27 34 54 55 56 61 62 63 64 65 66 67 70 83 95; in all of these counties, as well as in some of those quoted above by name, the Saintfoin is regarded as an introduced plant; at any rate, is so regarded by some botanists).

295 Vicia Orobus.

3 Devon south. Rossall rec.
4 n. Husband-Parfitt sp.
6 Som. north. Flower sp.
11 Hants south. Groves.
33 Gloster east. Roberts ms.
41 Glamorgan.
42 Brecon.
43 Radnor. Jones cat.
44 Carmarthen. Lees sp.
46 Cardigan.
47 Montgomery.
48 Merion. "Miss Holland sp."
49 Carnar. J. E. Bowman ms.
50 Denbigh.
68 Cheviot. Embleton cat.
70 Cumber. Heysham sp.
71 Man.
72 Dumfries.
77 Lanark. Balfour sp.
78 Peebles. G. Macnab sp.
80 Roxburgh. Waugh rec.
81 Berwick.
83 Edinburgh! Little sp.
85 Fife.
88 Perth mid. F. B. White.
90 Forfar. Gardiner sp.
04 Ebudes north. "Rum."
[37 38 65 66 92].

296 Vicia sylvatica.

3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight. More cat.
12 Hants north. Borrer.
15 Kent e. G. E. Smith cat.
20 Herts. Isaac Brown sp.
22 Berks.
23 Oxford.
24 Bucks.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
35 Monmouth. Ch. Bab. ms.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Pleydell ms.
49 Carnarvon!
50 Denb. J. E. Bowman cat.
51 Flint.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Thompson ms.
55 Leicester.
56 Notts.
57 Derby! "Mr. Astley."
58 Chester. J. L. Warren.
61 York s. east.
62 n. east. Bloxam ms.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Makepeace sp.
68 Cheviotland. Pringle sp.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright. Gray cat.
74 Wigton. G. Macnab sp.
75 Ayr.
77 Lanark. Hooper sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme sp.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid.
89 east!
90 Forfar!
91 Kinc. Mrs. Dickson ms.

92 Aber. south!
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
05 Ross west.
06 east. Gordon cat.
09 Caithness. R. Brown cat.
[1 13 25 29 48].

297 Vicia Cracca.

Counties all, except 74, where doubtless it does occur.

298 Vicia "sativa."

Counties all, with few exceptions; but apparently a confused mingling of the sown "Tare" with the truly "Wild vetch."

298 Vicia angustifolia.
(*V. Bobartii*).

1 Corn. west. (Beeby).
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north. Maw cat.
5 Som. south. Trevelyan sp.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Towns. cat.
12 north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Roper.
16 Kent west. Trevelyan sp.
17 Surrey!
18 Essex south.
19 Essex north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley ms.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Jones rec.
46 Cardigan. Jones rec.
47 Montgomery. Melvill cat.
48 Merioneth. Leefe sp.
49 Carnarvon!
50 Denb. J. E. Bowman cat.
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester. Bloxam cat.
56 Notts.
58 Chester! Hunt sp.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.

80 Roxburgh.
81 Berwick?
82 Haddington?
83 Edinburgh!
84 Linlithgow. Balfour sp.
85 Fife. Syme cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton?
00 Clyde-isles. Hennedy cat.
N.B. Including *Bobartii* as only a weakly state, not a real variety.

299 Vicia lathyroides.

6 Som. north. Collins ms.
10 White. More cat.
13 Sussex west. Borrer cat.
14 east. Bloomfield.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. Ellis ms.
21 Middlesex.
22 Berks.
24 Bucks.
25 Suffolk east. Bell sp.
26 west. Bloomfield.
27 Norfolk east.
28 west. Notcutt cat.
30 Bedford. I. Brown sp.
37 Worcester. Bagnall ms.
38 Warwick. "Bromwich."
39 Stafford. Douglas cat.
41 Glamorgan. Moggridge sp.
45 Pembroke.
47 Montg. J. E. Bowman ms.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Streatfield rec.
56 Notts.
58 Chester. Sansom sp.
59 Lanc. south. Bean sp.
64 York m. west. Baker sp.
66 Durham.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Tate cat.
71 Man. Forbes cat.
75 Ayr. G. Macnab sp.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Syme.
83 Edinburgh! Balfour cat.
85 Fife. Syme sp.
88 Perth mid. (F. B. White).
89 Perth east.
90 Forfar. Kerr sp.
91 Kincardine?
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
06 Ross east. Gordon cat.
[1 2 3 9 18 29 33 40 61 62 63; insufficiently vouched]. Not readily to be distinguished from the dwarfed states of *V. angustifolia* or *Bobartii*, and thus some of the counties named above may also be erroneous.

300 Vicia lutea.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south.
6 Som. north. Collins ms.
9 Dorset. Pleydell cat.
13 Sussex west. Christy sp.
15 Kent east. Jeffrey.
19 Essex north. Briggs sp.

25 Suff. east. Bloomfield ms.
58 Chester. F. M. Webb sp.
75 Ayr. "P. Maclagan sp."
83 Edinburgh! I. B. Balf. ms.
85 Fife! Nicholson sp.
88 Perth mid?
90 Forfar.
91 Kincardine. Croall sp.
Probably extinct in 58.

301 Vicia sepium.

Counties all, except 35 46 74 75 98 105 107 112.

302 Vicia bithynica.

1 Cornwall west?
2 Devon south!
5 Som. south. Coleman cat.
6 north. Russell sp.
9 Dorset. Pleydell cat.
13 Sussex west. Extinct.
15 Kent east. Syme sp.
16 west. Bromf. ms.
18 Essex south. Salmon sp.
19 north. Bentall sp.
34 Gloster west. (Ley sp.)
37 Worcester.
41 Glamorgan.
50 Denbigh. Price sp.
51 Flint.
62 York n. east. Baker.
[10 11]. (66 ballast hills).

303 Vicia hirsuta.

Counties all, except 35 42 69 74 97 98 105 106 107 108 110 [111] 112.

304 Vicia tetrasperma.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 Devon north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Miss Gifford sp.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. G. Reece sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Jones rec.
47 Montgomery. F. A. Lees rec.
48 Merioneth. Bailey rec.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea!

53 Lincoln south.
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
77 Lanark. Hooker sp.
80 Roxburgh. Brotherston rec.
83 Edinburgh.
85 Fife. Balf. sp. Exurs.†
90 Forfar. "G. Macnab."
[103 111 Orkney; Lowe's list].

304 Vicia gracilis.

3 Devon south. Rogers rec.
6 Som. north. Flower sp.
7 Wilts north. Flower sp.
9 Dorset. Norman sp.
10 Wight! Bromfield sp.
16 Kent west.
17 Surrey! casual?
18 Essex south. Syme sp.
19 north. Varenne ms.
20 Herts.
22 Berks.
24 Bucks. Britten cat.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
33 Gloster east. Flower sp.
37 Worcester. Fraser rec.
38 Warwick. "Cheshire."

305 Lathyrus Aphaca.

3 Devon south. Rogers sp.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
7 Wilts north.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. "Bromf.-hb."
12 north.
13 Sussex west. Borrer ms.
14 east. Roper.
15 Kent east. Syme.
17 Surrey. Ellis sp.
18 Essex south. Varenne ms.
19 north. Christy sp.
20 Herts. Fordham sp.
21 Middlesex?
23 Oxford.
24 Bucks.
25 Suffolk east. Stock ms.
26 west. Bromf. sp.
27 Norfolk east.
29 Cambridge. Babington cat.
33 Gloster east.
34 west! Thwaites cat.
37 Worcester. Maw sp.
38 Warwick.
Lincoln. "Carrington."
(57 59 62 64 66 67 75 83 88 or 89; casual in most of these counties; erroneously recorded in two or three of them?)

306 Lathyrus Nissolia.

1 Corn. west. Cunnack cat.†
2 east.
3 Devon south. Briggs cat.†
4 north?
5 Som. south. Coleman cat.
6 north. Trevelyan sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.

13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 Kent west. Downs sp.
17 Surrey! Ellis sp.
18 Essex south. Bromf. ms.
19 north. Christy sp.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten "v. sp."
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east. Bloxam ms.
28 west. Miss Bell sp.
29 Cambridge?
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
37 Worcester. E. Lees sp.
38 Warwick. Lloyd sp.
39 Stafford.
Lincoln. "Carrington."
55 Leicester.
57 Derby. Davidson sp.
58 Cheshire. F. M. Webb.
[36 50 56 61 81; errors?]
(67 70 75 90; casual?)

307 Lathyrus hirsutus.

17 Surrey. W. Bennett sp.
18 Essex south. Varenne sp.
[6 57 61]. (6 16 66 75).

308 Lathyrus pratensis.

Counties all, except 74 96 105 107; likely to occur in every county.

309 Lathyrus palustris.

6 Som. north. Clark sp.
11 Hants south. Notcutt.
17 Surrey? Extinct.
22 Berks. Britten "v. sp."
25 Suff. east. Woodward sp.
26 west. Skepper cat.
27 Norfolk east. Christy sp.
28 west. Bray.
29 Cambridge. Babington cat.
31 Hunts. Bree sp.
37 Worcester. (E. Lees).
48 Merion. J. E. Bowman ms.
49 Carnarvon. Howitt sp.
53 Linc. south?
54 north. Thompson ms.
61 York s. east.
63 s. w. F. A. Lees cat.
64 m. west.
74 Wigton? "Galloway."
[22 37 55 57 59].

310 Lathyrus sylvestris.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Christy sp.
6 north.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer ms.
14 east. Bloomfield.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. Linnell sp.
18 Essex south.
19 north.
20 Herts. Coleman cat.†
22 Berks.
23 Oxford. Miss Bell sp.
24 Bucks. Britten "v. sp."
25 Suffolk east?
26 west.
27 Norfolk east.

28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Bailey.
46 Cardigan. Lees sp.
47 Montgom. J.E. Bowman ms.
48 Merioneth. (C. Bailey).
49 Carnarvon.
50 Denbigh!
52 Anglesea.
55 Leicester.
56 Notts.
70 Cumberland.
73 Kirkcudbright. Balfour sp.
75 Ayr.
77 Lanark. Balfour sp.
81 Berwick. Embleton sp.
83 Edinburgh. Balfour cat.
87 Perth west.
90 Forfar.
00 Clyde-isles. Landsborough.
02 Ebrides south. Grieve cat.
03 Mull. Syme, "certainly (62 63 64 66 88). wild." [7 8 21 58 91; insufficiently vouched. Perhaps not truly wild in some of the other counties].

311 Lathyrus maritimus.

9 Dorset. Pleydell cat.
13 Sussex west. Helger.
14 east. Roper.
15 Kent east!
25 Suffolk east. Hardwicke sp.
54 Lincoln north.
70 Cumberland. Edmonds.
90 Forfar.
12 Shetland. Edmonston sp. [1 10 111; dubious].

312 Orobus tuberosus.

Counties all, except 25 27 28 29 31 32 46 54 74 75 86 97 98 99 105 107 110.

313 Orobus niger.

68 Cheviot. Tate sen. ms.
89 Perth east. Anderson sp.
90 Forfar.
96 Easterness.
N.B. Reported also from several other counties—Devon, Orkney, &c.—through misnaming the other species for this one. Perhaps introduced to all the four counties named above.

314 Prunus spinosa.

Counties all, except 42 74 75 89 97 98 104 105 107 109 to 112.

314 Prunus insititia.

1 Corn. west. Cunnack cat.†
2 east. Briggs sp.
3 Devon south. Briggs cat.
4 north.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.†
12 Hants north. Towns. cat.

13 Sussex west. Borrer cat.
14 east. J. L. Warren.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.†
21 Middlesex. Hind cat.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Coleman ms.
26 west.
27 Norfolk east.
28 west. Miss Bell ms.
29 Cambridge.
30 Bedford. Hillhouse.
33 Gloster east.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
46 Cardigan. Purchas ms.
47 Montgomery. Melvill cat.
49 Carnarvon!
52 Anglesea.
53 Lincoln south!
54 north. Bogg cat.
55 Leicester. Ch. Bab. ms.†
56 Notts. Howitt sp.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south.
62 York n. east. Baker cat.
64 m. west. Tatham cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Tate cat.
70 Cumberland.
72 Dumfries.
73 Kirkcudbright. Syme.
74 Wigton. Balfour sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
00 Clyde-isles. Hennedy cat. (80 81 83 85 88 89 90 91 106). This is treated as a native both in the Clydesdale and the Edinburgh Floras; but as the *P. domestica* is equally so given in the Flora of Edinburgh, not much weight can be attached to that evidence. Even in England many of its reported localities are artificial, having originated through planting; and the line of distinction between this and *P. spinosa* is uncertainly traced. Thus, the above enumeration of counties is to be received with some distrust.

315 Prunus Padus.

33 Gloster east. Prentice cat.
35 Monmouth. Ley.
36 Hereford.
38 Warwick. "introduced."
39 Stafford.
40 Salop. Leighton ms.
41 Glamorgan. Dillw. ms.
42 Brecon.
43 Radnor. Ley cat.
48 Merioneth. Gibson ms.
49 Carnarvon. Leefe ms.
50 Denbigh! J. E. Bowman cat.
51 Flint.
54 Lincoln north. Parsons rec.
55 Leicester. Coleman.†
56 Notts.
57 Derby! Howitt sp.
58 Chester! J. L. Warren cat.†
59 Lanc. south. Goodlad hb.
60 west. Linton cat.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.

65 York n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey ms.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland!
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Lawson cat.†
86 Stirling.
87 Perth west. Syme cat.
89 east.
90 Forfar. Roy ms.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Lawson cat.
06 Ross east. Ch. Bab. ms.
07 Suth. east. (Grant).
08 west.
09 Caithness. R. Brown cat.

N.B. Localities are also on record for this tree in several counties of the four first provinces, from Cornwall to Norfolk. With few exceptions it is indicated only as an introduced or planted tree in those counties. I have received the American *P. serotina*, labelled as wild *Padus*, from two of the southern counties. (10 11 17 19 20). [2 7].

316 Prunus avium.

Counties all, except 13 31 34 41 42 48 53 60 74 78 84 89 93 97 98 99 101 104 to 108 110 to 112. Two practical difficulties arise in attempts to trace the distribution of this tree. First, in many books and lists the name *Cerasus* is used indiscriminately for either or both the species. Second, the widest diversities of opinion occur as to the indigenous or introduced character of each species. For the counties of South Britain the *Avium* is usually treated as native. For those of North Britain it is usually noted as probably introduced. For the counties of Mid Britain there is an approximate balance of opinions; some for, some against nativity. No doubt the seeds are still carried in the crops of birds, from gardens to wilds; but whether the origin has been really from gardens, *at first*, or from wilds to gardens, cannot be satisfactorily decided now.

316 Prunus Cerasus.

1 Corn. east. Briggs.†
2 west. Briggs.†
3 Devon south. Briggs sp.†
4 north. Briggs.†
7 Wilts north. Preston ms.†
9 Dorset. Pleydell. Borrer.
10 Wight! Salter sp. More.†

13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. Crespigny sp.
17 Surrey! Linnell sp.
19 Essex north. Varenne cat.
20 Herts.
21 Middlesex. Hind cat.†
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
27 Norfolk east. Babington.
28 west. Notcutt ms.
29 Cambridge. Extinct?
30 Bedford. Hillhouse cat.
36 Hereford. Purchas.†
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
52 Anglesea.
55 Leicester. Bloxam sp.
58 Chester! Bird-sown?
64 York m. w. F. A. Lees cat.
65 n. west. Ward sp.

N.B. A selection from the counties on record for *Prunus Cerasus;* being those in which the *Cerasus austera* or true fruticose Cherry appears to have been intended. For myself, though inclined to accept this as an indigenous shrub, I do so with no positiveness. (1 2 4 27 68 83 87 91 92 94). [50 70].

317 Spiræa Ulmaria.

Counties all, except 74 107; doubtless it does occur in all of them.

318 Spiræa Filipendula.

62 York n. east. Baker cat.
1 Corn. west. Cunnack cat.
2 east. Briggs cat.†
3 Devon south.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east! Hall cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Wood ms.
18 Essex south.
19 north.
20 Herts. Blow ms.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east?
26 west. Bloomfield.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts? "Aikin."
32 Northampton. Druce.
33 Gloster east.
34 west. Thwaites sp.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford.
40 Salop?
49 Carnarv. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south! Bloxam ms.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
60 Lanc. west. Simpson sp.
61 York s. east.

63 York s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland. Tate ms.
69 Westmoreland! Pinder ms.
70 Cumberland.
81 Berwick. Embleton ms.
83 Edinburgh! Balfour cat.
85 Fife.
90 Forfar.
09 Caithness. (Grant).
(77 91 106).

320 (323) Dryas octopetala.

39 Stafford.
49 Carnarvon.
64 York m. west. Tatham cat.
65 n. west.
69 Westm. Backhouse, 1869.
87 Perth west. (Croall).
88 mid! Hooker sp.
89 east. Brand sp.
90 Forfar!
92 Aber. south! Dickie cat.
98 Argyle.
01 Cantire. Balfour sp.
04 Eb. north.
05 Ross west.
08 Suth. west! Graham sp.
11 Orkney. Syme sp.
[66 109; errors of place?]

321 Geum urbanum.

Counties all, except 71 74 97 102 104 107 108 110 111 112.

321-2 Geum intermedium.

3 Devon south?
4 north.
6 Somerset n. Parsons rec.
7 Wilts north. Preston ms.
9 Dorset. Pleydell cat.
12 Hants north. Spicer sp.
19 Essex north.
23 Oxford. (Druce).
26 Suffolk west.
28 Norfolk west.
29 Cambridge. Marshall sp.
36 Hereford.
38 Warwick. Kirk cat.
50 Denbigh. J. E. Bowman ms.
56 Notts.
57 Derby.
59 Lanc. south.
62 York n. east. Baker sp.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmor. R. Brown sp.
70 Cumberland.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Syme sp.
85 Fife. Syme sp.
86 Stirling.
87 Perth west. Syme sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
00 Clyde-isles. Hennedy cat.
11 Orkney. Gillies herb.
N.B. A most puzzling plant; some examples more like *rivale*, others more like *urbanum*.

322 Geum rivale.

3 Devon south. Briggs cat.
4 north?
6 Som. north.

7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Towns. cat.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
19 Essex north.
20 Herts.
22 Berks.
23 Oxford.
26 Suffolk west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Jones cat.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Butler sp.
50 Denb. J. E. Bowman cat.
51 Flint.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. Goodlad hb.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland!
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Mrs. Atkins sp.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon cat.
Sutherland.
09 Caithness. Brown cat.
11 Orkney. Syme cat.

324 Sibbaldia procumbens.

73 Dumfries?
78 Peebles.
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid!

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89 Perth east!
90 Forfar! Brand sp.
92 Aber south! Dickie cat.
93 north. Dickie flo.
94 Banff. Gordon ms.
96 Easterness! Gordon sp.
97 Westerness!
98 Argyle.
99 Dunbarton.
05 Ross west.
06 east. Gordon ms.
08 Suth. west! Campbell sp.
12 Shetland. "Ronas Hill." [3 Dartmoor].

325 Potentilla fruticosa.

65 York n. west. Baker sp.
66 Durham. R. B. Bowman sp.
69 Westmor. Backhouse ms.
70 Cumberland. (A. Ley). (23 63 77 83).

326 Potentilla rupestris.

47 Montgom. J.E. Bowman sp. [49 83].

327 Potentilla anserina.

Counties all, except 74 97.

328 Potentilla argentea.

2 Corn. east. Briggs sp.
3 Devon south. Rogers sp.
5 Som. south. Collins ms.
6 north. Collins ms.
7 Wilts north. Flower cat.
8 south.
11 Hants south!
12 north.
14 Sussex east. Borrer ms.
15 Kent east. G. E. Smith cat.
16 west. Crespigny.
17 Surrey! Ellis ms.
18 Essex south. Varenne ms.
19 north. Varenne sp.
20 Herts. Coleman sp.
21 Middlesex. Harris sp.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Miss Bell sp.
26 west. Cooper sp.
27 Norfolk east. Gibson ms.
28 west. Miss Bell ms.
29 Cambridge. Babington cat.
30 Bedford. Brown sp.
31 Hunts. Newbould cat.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop! Leighton cat.
47 Montgom. J.E. Bowman ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. J.E. Bowman sp.
52 Anglesea. Robinson cat.
55 Leicester. Ch. Bab. sp.
56 Notts.
58 Chester. J. L. Warren ms.
63 York s. w. F. A. Lees rec.
64 m. west. Jackson rec.
66 Durham.
67 Northumberland.
69 Westmoreland.
70 Cumberland?
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour sp.
83 Edinburgh! Balfour cat.
84 Linlith. Craig-Christie rec.
85 Fife.
88 Perth mid.
89 east!
90 Forfar.
95 Elgin. Gordon sp.

329 Potentilla verna.

6 Som. north ? Thwaites cat.
26 Suffolk west?
29 Cambridge. Coleman ms.
34 Gloster west ! French sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas ms.
39 Stafford. Miss Worsley.
41 Glamorgan.
49 Carnar. J. E. Bowman ms.
57 Derby ! Kirk sp.
62 York n. east. W. Foggitt.
63 s. w. F. A. Lees cat.
64 m. west? Tatham sp.
65 n. west. Ward sp.
68 Cheviotland. Tate ms.
70 Cumberland.
81 Berwick.
82 Haddington. Syme sp.
83 Edinburgh ! Brand sp.
85 Fife. Syme sp. 1870.
90 Forfar. Gardiner sp.
[3 25 40 60 62; insufficiently vouched].

330 Potentilla alpestris.

46 Cardigan ? Eng. flo.
47 Montgomery. Lees ms.
49 Carnarvon. Ley rec.
64 York m. west. Tatham sp.
65 n. west.
66 Durham. R. B. Bowman sp.
68 Cheviotland.
69 Westmor. R. B. Bowman sp.
70 Cumberland !
88 Perth mid ! Sadler sp.
89 east. (F. B. White).
90 Forfar ! Brand sp.
92 Aber. south ! Dickie ms.
97 Westerness. Sadler.
N.B. Difficult to trace an exact line of distinction between this and *P. verna*. [42 67].

331 Potentilla reptans.

Counties all, except 42 72 74 76 78 84 86 87 93 95 to 100 102 to 112. This common plant of England becomes infrequent in Scotland, and appears to be quite absent to the N.W. of the Caledonian Canal.

332 Potentilla Tormentilla.

Counties all, except 73 74; but doubtless actually to be found in every one of the 112 counties.

332 Potentilla procumbens.

(*P. nemoralis*).

Cornwall.
3 Devon south. Briggs.
4 north. Rogers.
Somerset. Southby ms.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west.
14 east. J. L. Warren.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks !
23 Oxford. Beesley cat.
25 Suffolk east. Skepper.
27 Norfolk east.
29 Cambridge.
30 Bedford. Hillhouse.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bromwich sp.
38 Warwick.

40 Salop.
41 Glamorgan.
44 Carmarthen. Jones.
46 Cardigan. Purchas cat.
48 Merioneth. Britten.
49 Carnarvon.
50 Denbigh.
51 Flint. Parsons rec.
52 Anglesea.
54 Linc. n. F. A. Lees rec.
55 Leicester.
56 Notts.
58 Chester.
59 Lanc. s. F. M. Webb cat.
61 York s. e. F. A. Lees rec.
62 n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west.
66 Durham. New flo. N.D.
67 Northumberland. New flo.
68 Cheviotland. New flo.
69 Westmoreland. Melvill.
71 Man. Forbes cat.
73 Kirkcudbright. Lloyd ms.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Boswell.
85 Fife ?
91 Kincardine ?
94 Banff ?
00 Clyde-isles.
06 Ross east ?
12 Shetland ? Misnomer ?

N.B. Small trust can be given to the distribution as here set forth. Too likely, this intermediate plant has been much confused with the *Tormentilla*, on the one side, and the *P. reptans*, on the other side. All my own notes of past years are rejected, as I would now certify the plant in Surrey and Berks only, although believing that it has been seen equally in several other counties.

333 Poten. Fragariastrum.

Counties all, except 35 42 46 74 97 101 102 104 105 107 108 110 111 112. Orkney ?

334 Comarum palustre.

1 Corn. west. Cunnack cat.
2 east. Briggs, "v.r."
3 Devon south. Abraham ms.
4 north. Wainwright.
6 Som. north. Collins ms.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north. Townsend
13 Sussex west. Borrer cat.
14 east. Bloomfield.
15 Kent east. Baker.
17 Surrey. Ellis sp.
19 Essex north.
20 Herts.
22 Berks.
24 Bucks ?
25 Suffolk east. Stock cat.
26 west. Brown sp.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford ! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
43 Badnor. E. H. Jones cat.

44 Carmarthen. Motley cat.
45 Pembroke. Gutch sp.
46 Cardigan. Gibson ms.
48 Merioneth.
49 Carnarvon. Gibson ms.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
54 Linc. north. Howitt ms.
55 Leicester. Coleman ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie sp.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 Aber. north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
98 Argyle.
99 Dunbarton. Ch. Bab. ms.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Ch. Bab. ms.
05 Ross west. (Druce).
06 east. Gordon cat.
08 Suth. west!
09 Caithness. Brown cat.
10 Hebrides.
11 Orkney. "Miss Boswell."
12 Shetland. Tate sp.

N.B. Treated as a "not common" plant on account of its infrequency in the southern counties.

335 Fragaria vesca.

Counties all, except 41 74 98 110.

337 Rubus Chamæmorus.

47 Montgomery.
48 Merion. J. E. Bowman ms.
49 Carnarvon. D. Turner ms.
57 Derby.
58 Chester. Church Bab. ms.
63 York s. west.
64 m. west. Tatham sp.
65 n. west. Ward ms.
66 Durham. Baker sp.
67 Northumb. Bigge sp.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland.
77 Lanark.
78 Peebles. Balfour ms.
79 Selkirk. Farquharson cat.

80 Roxburgh. Duncan ms.
83 Edinburgh. Balfour cat.
86 Stirling. Hooker sp.
87 Perth west. Syme cat.
88 mid!
89 Perth east.
90 Forfar!
91 Kincardine.
92 Aber. south! Dickie ms.
93 north.
94 Banff. Gordon ms.
96 Easterness! Gordon sp.
97 Westerness!
05 Ross west. Ch. Bab. ms.
06 east. Gordon ms.
07 Sutherland east. (Grant).
08 west!
09 Caithness. (Ar. Bennett).

338 Rubus saxatilis.

2 Corn. east.
3 Devon south. Briggs sp.
33 Gloster east. E. Lees sp.
34 west. Ley rec.
35 Monmouth. Ley rec.
39 Stafford.
40 Salop?
41 Glamorgan.
49 Carnarvon.
50 Denb. J. E. Bowman cat.
54 Linc. n. F. A. Lees rec.
57 Derby! Howitt cat.
59 Lanc. south. Goodlad hb.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland!
71 Man. Forbes cat. "v.r."
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife. Tom Drummond.
86 Stirling. Duthie cat.
87 Perth west. Syme sp.
88 mid! Miller cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness! Stables sp.
97 Westerness!
98 Argyle.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid. Ross cat.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Sutherland west!
09 Caithness. Brown cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate cat.

309 Rubus Idæus.

Counties all, except 1 16 41 42 45 74 86 110 112; likely to be found in most of these also, more or less wild. No doubt that many of its localities originate by seeds carried from gardens; but the shrub itself is native probably throughout Britain, unless the extreme north,

especially the North Isles, ought to be excepted.

339*Rubus Leesii.

4 Devon north. E. Lees.
5 Somerset south. Coleman.
38 Warwick.
69 Westmoreland. E. Lees.

For the following sketch of the fruticose *Rubi* we are entirely indebted to Professor Babington. It is founded on his 'British Rubi,' with the additions which he has since obtained.

340.—2 R. suberectus.

3 Devon south.
4 north. Briggs.
5 Somerset south.
10 Wight.
14 Sussex east. Borrer.
17 Surrey. Borrer.
20 Herts.
22 Berks.
35 Monmouth.
36 Hereford. Bloxam.
37 Worcester.
40 Salop.
46 Cardigan. Anderson.
48 Merioneth.
55 Leicester. Bloxam.
58 Chester.
63 York s. west.
65 n. west.
69 Westmoreland.
70 Cumberland.
72 Dumfries.
76 Renfrew.
81 Berwick.
86 Stirling.
87 Perth west.
90 Forfar. G. Don.
98 Argyle. Hooker.

340.—3 R. fissus.

4 Devon north. Briggs.
34 Gloucester west.
35 Monmouth.
38 Warwick.
40 Salop.
48 Merioneth.
49 Carnarvon.
50 Denbigh. Borrer.
55 Leicester. Bloxam.
58 Chester.
62 York n. east. Baker.
63 s. west.
66 Durham. Baker.
69 Westmoreland. Borrer.
70 Cumberland. Hailstone.
72 Dumfries.
90 Forfar.
98 Argyle.
99 Dunbarton. Hailstone.
11 Orkney.

340.—4 R. plicatus.

3 Devon south. Briggs.
9 Dorset.
10 Wight.
11 Hants south.
13 Sussex west.
14 east.
15 Kent east. Borrer.
16 west. Henslow.
17 Surrey.
18 Essex south. E. Forster.
20 Herts.
21 Middlesex.
22 Berks. Bicheno.
35 Monmouth. Ley.
38 Warwick. Bloxam.
40 Salop.
46 Cardigan.
55 Leicester.
57 Derby. Bloxam.

58 Chester. Wilson.
59 Lanc. s. Herb. Withering.
62 York n. east.
67 Northumberland.
69 Westm. Hort and Borrer.
70 Cumberland.
72 Dumfries.
74 Wigton.
81 Berwick. Johnston.
87 Perth west. Greville.
88 mid.
00 Clyde-isles.

340.—5 R. affinis.

3 Devon south.
4 north.
13 Sussex west. Borrer.
16 Kent west.
17 Surrey. Borrer.
20 Herts.
33 Gloucester east. Hort.
34 west.
35 Monmouth.
36 Hereford. Purchas.
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop.
42 Brecon.
45 Pembroke.
46 Cardigan.
47 Montgomery.
48 Merioneth.
49 Carnarvon.
55 Leicester.
57 Derby. Bloxam.
58 Chester.
62 York n. east.
63 s. west. Bloxam.
69 Westmoreland.
70 Cumberland.
72 Dumfries.
74 Wigton. Balfour.
76 Renfrew.
83 Edinburgh.
87 Perth west.
97 Westerness.
00 Clyde-isles. Balfour.

340.—6 R. hemistemon.

1 Devon north.
38 Warwick.
46 Cardigan.
92 Aberdeen.

340.—7 R. Lindleianus.

3 Devon south.
5 Somerset south. Flower.
10 Wight.
17 Surrey.
18 Essex south. E. Forster.
21 Middlesex.
24 Bucks. E. Lees.
27 Norfolk west. Bloxam.
29 Herts.
32 Northampton. Bloxam.
34 Gloucester west.
35 Monmouth. E. Lees.
36 Hereford.
37 Worcester.
38 Warwick. Bloxam.
40 Salop.
42 Brecon. Hort.
43 Radnor.
48 Merioneth.
49 Carnarvon.
50 Denbigh.
52 Anglesea. W. Wilson.
55 Leicester.
57 Derby. Bloxam.
58 Chester.
60 Lanc. north.
62 York n. east.
63 s. west.
66 Durham.
69 Westmoreland. Borrer.
70 Cumberland ?
71 Man.
76 Renfrew.

87 Clackmannan.
99 Dunbarton.
00 Clyde-isles.

340.—8 R. rhamnifolius.

3 Devon south.
10 Wight.
11 Hants south.
14 Sussex east. Borrer.
17 Surrey.
19 Essex north. Varenne.
20 Norfolk west.
21 Middlesex. J. L. Warren.
34 Gloucester west.
35 Monmouth.
36 Hereford. Purchas.
37 Worcester.
40 Salop.
49 Carnarvon.
55 Leicester.
62 York n. east.
69 Westmoreland.
71 Man.
85 Fife. Syme.

340.—9 R. incurvatus.

2 Cornwall east.
13 Sussex west.
17 Surrey.
45 Pembroke.
48 Merioneth.
49 Carnarvon.
59 or 60 Lancaster.
71 Man.
76 Renfrew. Balfour.

340.—10 R. imbricatus.

11 Hants south. Groves.
34 Gloster west. Hort.
35 Monmouth. Hort.

340.—10*R. ramosus.

2 Cornwall east.
3 Devon south.
38 Warwick.

340.—11 R. latifolius.

83 Edinburgh. Balfour.
84 Linlithgow.
88 Perth mid.
[35].

340.—12 R. discolor.

4 Devon north.
5 Somerset south. Coleman.
6 north.
9 Dorset.
10 Wight.
13 Sussex west. Borrer.
17 Surrey.
18 Essex south. E. Forster.
21 Middlesex.
26 Suffolk west.
28 Norfolk west.
29 Cambridge.
32 Northampton. Bloxam.
34 Gloucester west.
35 Monmouth.
37 Worcester. E. Lees.
38 Warwick.
39 Stafford.
40 Salop.
43 Radnor.
45 Pembroke.
46 Cardigan.
48 Merioneth.
49 Carnarvon.
50 Denbigh.
55 Leicester.
57 Derby. Hind.
58 Chester. G. E. Hunt.
62 York n. east.
67 Northumberland. Winch.
71 Man.
75 Ayr. Balfour.
91 Kincardine.

00 Clyde-isles.

340.—12*R. discolor. var. *pubigerus*.

35 Monmouth. Hort.
66 Hereford. Purchas.

340.—13 R. thyrsoideus.

12 Hants north.
17 Surrey.
21 Middlesex. Hind.
29 Cambridge.
30 Bedford.
32 Northampton. Bloxam.
33 Gloster east.
34 west.
35 Monmouth.
36 Hereford.
37 Worcester.
38 Warwick.
39 Stafford. Bloxam.
40 Salop.
49 Carnarvon.
55 Leicester. Bloxam.
57 Derby. Bloxam.

340.—14 R. leucostachys.

2 Cornwall east. Hort.
3 Devon south.
6 Somerset north.
10 Wight.
11 Hants south.
13 Sussex west.
17 Surrey.
19 Essex north. Bentall.
20 Herts.
21 Middlesex. Hind.
34 Gloster west.
35 Monmouth.
36 Hereford.
37 Worcester.
38 Warwick. Bloxam.
40 Salop.
42 Brecon.
43 Radnor.
45 Pembroke.
46 Cardigan.
47 Montgomery.
49 Carnarvon.
50 Denbigh.
55 Leicester.
57 Derby. Bloxam. Borrer.
59 Lanc. south. Sidebotham.
62 York n. east. Spruce.
63 s. west.
67 Northumberland.
68 Cheviotland. Johnston.
69 Westmoreland.
71 Man.
81 Berwick. Johnston.

340.—15 R. hirtifolius.

3 Devon south.
10 Wight.

340.—16 R. Grabowskii.

13 Sussex west.
38 Warwick.
52 Anglesea. Wilson.
55 Leicester.

340.—17 R. Colemanni.

11 Hants south.
38 Warwick.
55 Leicester.
58 Chester. Hunt.
62 York n. e. (R. Boreanus).

340.—18 R. Salteri.

3 Devon south. Briggs.
10 Wight.
11 Hants south.
34 Gloster west.
40 Salop.
48 Merioneth. Borrer.

55 Leicester.
62 York n. east.
71 Man.

340.—19 R. carpinifolius.

9 Dorset. Bell-Salter.
10 Wight. Bell-Salter.
11 Hants south. Groves.
13 Sussex west. Borrer.
17 Surrey.
26 Suffolk east.
34 Gloster west.
40 Salop.
46 Cardigan.
47 Montgomery.
48 Merioneth.
49 Carnarvon.
50 Denbigh.
55 Leicester.
58 Chester. Coward.
59 Lanc. south.
63 York s. west.
67 Northumberland.
68 Cheviotland. Johnston.
69 Westmoreland.
70 Cumberland.
71 Man.
98 Bute. Balfour.

340.—20 R. villicaulis.

1 Corn. w. Towns. [Scilly].
3 Devon south. Briggs.
5 Somerset west. Flower.
6 north.
9 Dorset. Bell-Salter.
10 Wight.
11 Hants south.
17 Surrey.
20 Herts.
21 Middlesex. Hind.
33 Gloster east.
34 west.
35 Monmouth.
37 Worcester.
38 Warwick.
40 Salop.
47 Montgomery.
48 Merioneth.
49 Carnarvon.
55 Leicester.
59 Lancaster south.
62 York n. east.
67 Northumberland.
71 Man.
84 Linlithgow.
86 Stirling. G. E. Hunt.

340.—20*R. adscitus, (*derasus*).

40 Salop.
49 Carnarvon.
58 Cheshire.
07 Sutherland east. Oliver.

340.—21 R. macrophyllus. var. *umbrosus*.

2 Cornwall east.
4 Devon north.
11 Hants south. Groves.
13 Sussex west. Borrer.
20 Herts.
25 Suffolk east.
30 Bedford.
34 Gloster west. Hort.!
35 Monmouth.
36 Hereford.
37 Worcester.
40 Salop.
42 Brecon.
46 Cardigan.
48 Merioneth. Borrer.
49 Carnarvon.
50 Denbigh.
52 Anglesea.
55 Leicester.
57 Derby. Bloxam.
59 Lanc. south. Sidebotham.
63 York s. west.

65 York n. west. Baker.
67 Northumberland. Baker.
69 Westmoreland.
70 Cumberland.
72 Dumfries.
76 Renfrew.
85 Fife.
00 Clyde-isles.
02 Ebudes south.

340.—21*R. macrophyllus, W. & N.

3 Devon south. Briggs.
4 north.
5 Somerset south.
13 Sussex west.
35 Monmouth.
40 Salop.
45 Pembroke.
46 Cardigan.
48 Merioneth.
49 Carnarvon.
55 Leicester. Bloxam.
57 Derby. Backhouse.
58 Chester.
68 Cheviotland. Johnston.
69 Westmoreland.
81 Berwick. Johnston.
86 Stirling. G. E. Hunt.
92 Aberdeen south.

340.—21*R. macrophyllus, var. *Schlechtendalii.*

2 Cornwall east.
3 Devon south.
4 north.
13 Sussex west. Borrer.
17 Surrey.
20 Herts.
35 Monmouth.
37 Worcester.
40 Salop.
46 Cardigan.
49 Carnarvon.
55 Leicester. Bloxam.
62 York n. east.
84 Linlithgow.
96 Easterness.

340.—21*R. macrophyllus, var. *amplificatus.*

37 Worcester.
55 Leicester.
57 Derby. Bloxam.
62 York n. east.
63 s west. Bloxam.
00 Clyde-isles.

340.—21*R. macrophyllus, var. *glabratus.*

17 Surrey.
40 Salop.
49 Carnarvon.
58 Chester.
59 Lancaster south.
64 York m. west.
85 Fife.

340.—22 R. mucronulatus.

3 Devon south. Briggs.
38 Warwick.
40 Salop.
49 Carnarvon. Borrer.
55 Leicester. Bloxam.
62 York n. east.
67 Northumberland.
81 Berwick. Johnston.
84 Linlithgow.
85 Fife.
86 Stirling. G. E. Hunt.
91 Kincardine.
92 Aberdeen south.
97 Westerness.
00 Arran.
02 Ebudes south.

340.—23 R. Sprengelii, var. *Borreri.*

10 Wight.
34 Gloster west.
35 Monmouth.
38 Warwick.
49 Carnarvon.
55 Leicester. Bloxam.
57 Derby.
59 Lancaster south.
63 York s. west.
64 m. west.

340.—23*R. Sprengelii.

20 Herts.
35 Monmouth.
37 Worcester.
38 Warwick.
48 Merioneth.
55 Leicester.
58 Cheshire. G. E. Hunt.
59 Lanc. s. Bloxam & Hunt.
69 Westmoreland.

340.—24 R. Bloxamii.

3 Devon south. Briggs.
38 Warwick.
40 Salop.
55 Leicester. Bloxam.
64 York m. west. Webster.
66 Durham.

340.—25 R. Hystrix.

1 Cornwall west.
3 Devon south.
4 north. Briggs.
10 Wight.
11 Hants south. Groves.
13 Sussex west.
17 Surrey.
20 Herts.
21 Middlesex. Hind.
27 Norfolk east.
33 Gloster east. Notcutt.
34 west.
35 Monmouth.
36 Hereford.
38 Warwick.
55 Leicester.
57 Derby.
62 York n. east. Baker.
65 n. west.
68 Cheviotland. Johnston.

340.—30 R. rosaceus.

4 Devon north. Bell-Salter.
10 Wight.
12 Hants north.
13 Sussex west.
14 east.
17 Surrey.
20 Herts.
21 Middlesex. Hind.
33 Gloster east.
34 west.
36 Hereford. Purchas.
49 Carnarvon.
55 Leicester.
57 Derby. Purchas.
62 York n. east.
63 s. west.
67 Northumberland.
69 Westmoreland.

340.—27 R. præruptorum.

(*R. pygmæus*, Bab.)

16 Kent west.
20 Herts.
21 Middlesex.
23 Oxford.

340.—28 R. scaber.

6 Somerset north. Flower.
11 Hants south.
13 Sussex west. Borrer.

19 Essex north. Varenne.
20 Herts.
21 Middlesex.
33 Gloster east. Notcutt.
35 Monmouth.
37 Worcester.
38 Warwick.
40 Salop.
49 Carnarvon.
55 Leicester. Bloxam.
57 Derby.
62 York n. east.

340.—29 R. rudis.

3 Devon south. Briggs.
6 Somerset north.
8 Wilts south. E. Forster.
9 Dorset. Bell-Salter.
10 Wight. Borrer.
11 Hants south. Hind.
17 Surrey.
20 Herts.
21 Middlesex. Hind.
34 Gloster west.
36 Hereford.
37 Worcester.
40 Salop.
46 Cardigan.
47 Montgomery.
49 Carnarvon.
55 Leicester.
62 York n. east.
67 Northumberland. Borrer.
69 Westmoreland. Cookson.
76 Renfrew.
81 Berwick.

340.—30 R. Radula.

3 Devon south. Briggs.
9 Dorset.
10 Wight.
11 Hants south. Groves.
13 Sussex west.
17 Surrey.
21 Middlesex. Hind.
29 Cambridge.
30 Bedford.
40 Salop.
45 Pembroke.
55 Leicester.
57 Derby.
62 York n. east.
63 s. west.
72 Dumfries.
83 Edinburgh.
85 Fife.

340.—31 R. Koehleri, verus.

1 Corn. w. Towns. [Scilly].
4 Devon north.
11 Hants south.
13 Sussex west. Borrer.
33 Gloster east. Notcutt.
37 Worcester.
40 Salop.
49 Carnarvon.
58 Chester.
69 Westmoreland.
71 Man.

340.—31*R. Koehleri. var. *infestus*.

11 Hants south.
17 Surrey.
34 Gloster west.
37 Worcester.
40 Salop.
49 Carnarvon.
61 York s. east.
62 n. east.
76 Renfrew.

340.—31*R. Koehleri. var. *pallidus*.

6 Somerset north.
13 Sussex west. Borrer.
14 east. Mitten.

17 Surrey.
20 Herts. Hind.
21 Middlesex. Hind.
28 Norfolk west.
29 Cambridge.
34 Gloster west.
35 Monmouth.
36 Hereford. Purchas.
37 Worcester.
39 Stafford.
40 Salop.
42 Brecon.
45 Pembroke.
49 Carnarvon.
50 Denbigh.
55 Leicester.
58 Chester. Bloxam.
62 York n. east.
63 s. east.
66 Durham.
70 Cumberland. Hort.
72 Dumfries.
87 Perth west.
00 Clyde-isles.

340.—31*R. Koehleri. var. *cavatifolius*.

2 Cornwall east.
11 Hants south.
17 Surrey.
28 Norfolk west.
35 Monmouth.

340.—32 R. fusco-ater.

11 Hants south.
13 Sussex west.
34 Gloster west.
36 Hereford.
37 Worcester.
38 Warwick.
40 Salop.
55 Leicester.
57 Derby.
62 York n. east.
63 York s. west.
64 m. west.
67 Northumberland.

340.—33 R. emeristylus.

3 Devon south.
13 Sussex west.

340.—34 R. diversifolius.

1 Corn. w. Towns. [Scilly].
3 Devon south. Briggs.
9 Dorset. Salter.
10 Wight. Salter.
11 Hants south. Salter.
13 Sussex west.
17 Surrey. E. Forster.
20 Herts.
29 Cambridge.
36 Hereford. Purchas.
39 Stafford.
40 Salop.
43 Radnor.
47 Montgomery.
49 Carnarvon.
58 Chester. G. E. Hunt.
59 Lancaster south.
62 York n. east.

340.—35 R. mutabilis.

3 Devon south.

340.—36 R. Lejeunii.

2 Cornwall east.
8 Wilts south.
11 Hants south. Salter.
18 Essex south. Hind.
19 north.
20 Herts.
34 Gloster west.
36 Hereford.
40 Salop.
49 Carnarvon.

57 Derby.
58 Chester. Hunt.
67 Northumberland. Baker.
71 Man.

340.—37 R. pyramidalis.

1 Cornwall west.
3 Devon south.
5 Somerset south.
35 Monmouth.
37 Worcester.
38 Warwick.
49 Carnarvon.
[2].

340.—38 R. Guntheri.
(*R. saltuum*, Focke).

2 Cornwall east.
3 Devon south.
18 Essex south. Hind.
20 Herts. Hind.
21 Middlesex. Hind.
34 Gloster west.
37 Worcester.
38 Warwick.
55 Leicester. Bloxam.
62 York n. east.

340.—39 R. humifusus.

11 Hants south.
19 Essex north. Varenne.
20 Herts.
36 Hereford.
40 Salop.
47 Montgomery.
58 Chester. Borrer.
62 York n. east.
67 Northumberland.
70 Cumberland. Borrer.
72 Dumfries.
87 Perth west.

340.—40 R. foliosus.

3 Devon south. Briggs.
11 Hants south.
38 Warwick.

340.—41α.R. glandulosus, var. *Bellardi*.

34 Gloster west.
36 Hereford.
37 Worcester.
40 Salop.
49 Carnarvon.
62 York n. east.

340.—41 R. glandulosus, subvar. *dentatus*.

38 Warwick. Bloxam.
55 Leicester.
63 York s. west.

340.—41 R. glandulosus, var. *hirtus*.

13 Sussex west. Mitten.
20 Herts.
34 Gloster west.
35 Monmouth.
36 Hereford.
37 Worcester.
40 Salop.
48 Merioneth. Borrer.
55 Leicester.
62 York n. east.
64 m. west.

340.—41*R. glandulosus, subvar. *rotundifolius*.

37 Worcester.
55 Leicester.
63 York s. west.

340.—41 R. glandulosus, var. *Reuteri*.

36 Hereford.
37 Gloster west.
59 Lanc. south.
62 York n. east.
92 Aber. south.

340.—42 R. Balfourianus.

3 Devon south. Briggs.
6 Somerset north.
16 Kent west.
17 Surrey. Borrer.
20 Herts.
21 Middlesex. Hind.
22 Berks. Bicheno.
29 Cambridge.
33 Gloster east. Notcutt.
34 west.
35 Monmouth.
37 Worcester.
38 Warwick.
58 Chester. Sidebotham.
62 York n. east.
69 Westmoreland.
81 Berwick. Johnston.

340.—43 R. corylifolius, typical.

13 Sussex west. Borrer.
14 east.
17 Surrey.
20 Herts.
21 Middlesex. Hind.
28 Norfolk west.
29 Cambridge.
30 Bedford.
34 Gloster west.
37 Worcester.
40 Salop.
45 Pembroke.
55 Leicester.
62 York n. east.
65 n. west.
71 Man.

430.—43*R. corylifolius, var. *conjungens.*

10 Wight.
13 Sussex west.
17 Surrey.
18 Essex south. Sowerby.
21 Middlesex. Hind.
29 Cambridge.
30 Bedford.
34 Gloster west.
36 Hereford. Purchas.
37 Worcester.
40 Salop.
45 Pembroke.
46 Cardigan.
49 Carnarvon.
59 Lancaster south.
62 York n. east.
76 Renfrew.
86 Stirling. Hunt.
00 Arran. Clyde-isles. Balf.

340.—43*R. corylifolius, var. *purpureus.*

6 Somerset north.
13 Sussex west.
27 Norfolk west.
29 Cambridge.
36 Hereford.
37 Worcester.
40 Salop.
55 Leicester.
62 York n. east.
00 Arran. Balfour.

340.—44 R. althæifolius.

6 Somerset north.
10 Wight.
12 Hants south.
13 Sussex west.
18 Essex south. E. Forster.
20 Herts.
21 Middlesex. Hind.

29 Cambridge.
33 Gloster east. Notcutt.
36 Hereford. Purchas.
38 Worcester.
58 Chester.
62 York n. east.
66 Durham.
71 Man.

340.—45 R. tuberculatus.

7 Wilts north.
13 Sussex west.
17 Surrey.
28 Norfolk west.
29 Cambridge.
34 Gloster west.
35 Monmouth.
36 Hereford.
37 Worcester. E. Lees.
40 Salop.
55 Leicester.
62 York n. east.
70 Cumberland.

340.—46 R. cæsius.

Provinces 1 to 15. Universally distributed in England and Wales, and in Scotland up to Perth, but not known farther north.

341 Rosa spinosissima.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south.
4 north. Maw cat.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Townsend.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent east.
16 Kent west. French sp.
17 Surrey! Castle sp.
18 Essex south.
19 north.
21 Middlesex! Twining sp.
22 Berks.
25 Suffolk east. Bloomfield.
26 west. Bloomfield.
27 Norfolk east.
28 Norfolk west.
29 *Cambridge.* Babington flo.†
32 Northton. Notcutt cat.
36 Hereford.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford!
40 Salop.
41 Glamorgan. Gutch sp.
42 Brecon. Ley rec.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
48 Merioneth. Gibson ms.
49 Carnarvon!
50 Denb. J. E. Bowman cat.
51 Flint. Rev. J. Poole ms.
52 Anglesea!
55 Leicester. Bloxam sp.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Hiern.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat. "v.c."
72 Dumfries.
73 Kirkcudbright. Gray cat.

75 Ayr. Duncan cat.
78 Peebles. Brotherston.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotheston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south! Dickie ms.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ch. Bab. ms.
04 north. Lawson cat.
05 Ross west. Ch. Bab. ms.
06 east. Gordon cat.
07 Suth. east!
08 west! Ch. Bab. ms.
09 Caithness!
[111 Orkney. Lowe's list].

342 Rosa hibernica.

17 Surrey. (var. *Grovesii*).
58 Chester. F. M. Webb sp.
62 York n. east. Baker sp.
66 Durham. Baker mon.
68 Cheviotland. Oliver sp.
70 Cumberland. Borrer sp.
08 Suth. west. Baker mon.

343 Rosa Sabini, etc.
(*R. involuta*, Sm.)

3 Devon south. E. Parfitt ms.
4 north. Maw cat.
10 Wight. Baker Monograph.
Sussex. Borrer. Monog.
15 Kent east. Beeby.
17 Surrey. Groves.
21 Middlesex. Twining sp.
32 Northton. Notcutt sp.
33 Gloster east. Notcutt sp.
36 Hereford. Purchas flo.
37 Worcester. E. Lees sp.
38 Warwick. Kirk. Bree.
39 Stafford. Purchas.
46 Cardigan. Atwood sp.
49 Carnarvon. Hooker sp.
51 Flint. Fisher sp.
52 Anglesea. E. Lees in Phytol.
55 Leicester. Bloxam sp.
58 Chester. F. M. Webb.
62 York n. east. Baker sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Leefe sp.
69 Westmoreland. Oliver ms.
70 Cumberland. Oliver sp.
77 Lanark. Hennedy cat.†
81 Berwick. Border flo.
82 Haddington. Balf. flo.
83 Edinburgh. Balf. flo.
84 Linlithgow. Craig-Christie.
88 Perth mid. Worsley cat.
90 Forfar. Monog.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. "Rev. J. Keith."
97 Westerness. "Dr. Walker."
00 Clyde-isles. Hennedy cat.
02 Eb. south. "Dr. Walker."
05 Ross west. (Druce).
09 Caithness. Dick.
11 Orkney.

344 Rosa mollissima.

11 Hants south. J. Groves.
17 Surrey? Crespigny.
20 Herts. Blow.
27 Norfolk east. Ar. Bennett.
32 Northton. Druce.

36 Hereford. Ley rec.
37 Worcester. Lees.
38 Warwick. Bagnall.
39 Stafford. Bagnall.
42 Brecon. Ley rec.
44 Carmarthen. Ley rec.
46 Cardigan. Jones rec.
47 Montgomery. Ley cat.
48 Merioneth. "Borrer."
49 Carnarvon. "Wilson."
54 Linc. n. F. A. Lees rec.
55 Leicester. Bloxam sp.
57 Derby. "Purchas."
62 York n. east. Baker cat.
63 s. west. Hailstone sp.
64 m. west. Tatham cat.
65 n. west.
66 Durham. "Robertson."
67 Northumb. New flo.
68 Cheviotland. New flo.
69 Westmoreland. Baker.
70 Cumberland. Baker cat.
78 Peebles. Brotherston cat.
80 Roxb. Brotherston rec.
85 Fife. Syme cat.
86 Stirling. Farquharson rec.
87 Perth west. Syme cat.
88 mid. Miller cat.
89 east. Druce rec.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff. Dickie Guide.
98 Argyle. "Hailstone."
00 Clyde-isles. Baker.
05 Ross west. (Druce).
09 Caithness. "Dick."
11 Orkney. Syme sp.

N.B. Under the names of *villosa mollis* or *mollissima* this *Rosa* is reported from 60 or 70 counties; but it has been so frequently confused with *tomentosa* on the one side, and even with *Sabini* or "*gracilis*" on the other side, through so called *scabriuscula*,— that no reliance can be given to book records in general. I have certainly seen it in several counties of North England and Scotland; although I dare not now trust to my old notes, and my specimens of roses were destroyed by accidental fire, while in the house of Mr. Baker. The counties named above must be taken as an incomplete selection.

345 Rosa tomentosa.

Counties all, except 8 31 46 53 72 to 74 86 88 89 95 96 97 102 106 107 109. In some of these counties it has very likely been seen and mistaken for "*mollissima*"; in others, the converse may have occurred, through misnomers of the latter as if the present species. Mr. Baker has seen it from Cornwall and Caithness; and it is enumerated in the lists for Hebrides, Orkney, Shetland.

346 Rosa "sepium, Thuil."

14 Sussex east. Jenner.
17 Surrey. Baker sp.
38 Warwick. Bree.

N.B. *Rosa Judzilliana*, placed under No. 346 in the London Catalogue, has been subsequently united with "*tomentosa*," by Mr. Baker. This seems near *R. micrantha*.

347 Rosa inodora.

6 Som. north. "Woods."
63 York s. west. "S. King."
65 n. west. "Ward."
66 Durham. "Robertson."
68 Cheviotland. Baker.
N.B. The counties and authorities are taken from Baker's Monograph. I do not understand the species. [38].

348 Rosa Borreri, etc.

N.B. Now referred to *canina* in Baker's Monograph. See Comp. Cyb. Brit. page 507.

349 Rosa micrantha.

1 Corn. west. Briggs.
2 east. Briggs sp.
3 Devon south. Briggs sp.
4 north. Briggs.
5 Som. south. Coleman cat.
6 north. Stephens sp.
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Pryor.
12 north. Baker ms.
13 Sussex west! Borrer cat.
14 east. Coleman sp.
15 Kent e. G. E. Smith cat.
16 west. H. Groves rec.
17 Surrey! Baker mon.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Castles ms.
22 Berks.
23 Oxford. "Borrer."
24 Bucks.
26 Suffolk west. Coleman ms.
27 Norfolk east. Ar. Bennett.
30 Bedford. Blow rec.
32 Northton. Berkeley ms.
33 Gloster east.
34 west. Thwaites sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
44 Carmarthen. Motley cat.
45 Pembroke. Purchas ms.
46 Cardigan. Atwood ms.
49 Carnarvon.
52 Anglesea. "Wilson."
55 Leicester. Bloxam sp.
56 Notts.
58 Ches. "F.M.Webb" in Mon.*
62 York n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Baker.
66 Durham. "A. M. Norman."
68 Cheviotland. "Chrisp."
80 Roxburgh. Brotherston rec.
81 Berwick. Brotherston rec.

350 Rosa rubiginosa.

1 Corn. west. Cunnack cat.
2 east. Briggs.†
3 Devon south. Briggs cat.
6 Som. north. Thwaites cat.
8 Wilts south. Rogers.†
9 Dorset. Pleydell cat.
10 Wight. Baker "wild."
11 Hants south. Notcutt cat.
12 north. Baker ms.
13 Sussex west. Borrer cat.†
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west. J. Groves.
17 Surrey. Linnell sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.

25 Suffolk east. Purchas cat.†
26 west. Skepper.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge.
30 Bedford.
32 Northton.
33 Gloster east. Prentice cat.
34 west.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester.
38 Warwick. Bree cat.
39 Stafford.
40 Salop. Leighton cat. co.
44 Carmarthen. Jones.†
49 Carnarvon. Robinson cat.
50 Denbigh? Faun. Grust.
52 Anglesea.
54 Linc. north. Fowler rec.†
55 Leicester. Bloxam cat.
56 Notts.
57 Derby.
58 Chester. Fisher ms.*
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.†
64 m. w. F. A. Lees cat.†
65 n. west.
66 Durham. New flo.†
67 Northumb. New flo.†
68 Cheviotland. New flo.†
69 Westmoreland.
70 Cumberland. Baker cat.† [4]. (72 73 76 to 79 81 to 86 88 89 90 92 94 95 96 99 100 101 105).

N.B. The counties of England are given above as found on record for the "Sweet-brier." Those of Scotland are all enclosed ( ) with the sign of distrusted nativity; so few botanists there regarding it as a native shrub. The Flora of Edinburgh and even that of Clydesdale are exceptions, admitting it unquestioned. I have never seen it quite satisfactorily indigenous in England, of late years; and at earlier dates I confused together this and *micrantha;* indeed, I can hardly say now that *rubiginosa* is not truly a garden variety of *micrantha.*

351 Rosa canina, etc.

Counties all, except 42 74 97 102 104 110. Not certain for Shetland.

352 Rosa systyla.

2 Corn. east. Briggs.
3 Devon south. Baker mon.
4 north. Rogers rec.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north.
8 south. Rogers.
9 Dorset. Pleydell sp.
10 Wight. Baker mon.
11 Hants south. Pryor.
13 Sussex west. Borrer cat.
14 east. Coleman sp.
15 Kent east. G. E. Smith cat.
16 west. Groves rec.
17 Surrey! Coleman sp.
18 Essex south.
19 n. G. S. Gibson sp.
20 Herts. Coleman cat.
21 Middlesex. Syme sp.
22 Berks.
27 Norfolk east.
28 west.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester.

38 Warwick. "*gallicoides.*"
41 Glamorgan.
44 Carmarthen.
58 Chester.
59 Lanc. s. F. M. Webb cat.
63 York s. w. F. A. Lees rec.
68 Cheviotland. New flo.
70 Cumber. "Th. Benson."

[1 4 29 50 62 77 84 86 90 96 97 99; insufficiently vouched]. An incongruous cluster of forms, more or less intermediate between *canina* and *arvensis;* both of which, I fully believe, are taxed to aid in making up the cluster named *systyla* or *stylosa*. At first, I had here simply interposed one Dog-rose between the *spinosissima* and *arvensis*, in sheer despair about the possibility of enumerating the counties under the several species with any approach to accuracy. And I am now far from satisfied with what is done above.

353 Rosa arvensis.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton. Notcutt sp.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Bromwich sp.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
47 Montgomery. Melvill cat.
49 Carnarvon!
50 Denbigh! J.E. Bowman cat.
51 Flint!
52 Anglesea.
53 Lincoln s. Fowler & Lees.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J.L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.

65 York n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland. Pinder ms.
70 Cumberland. Edmonds sp. (Scotland 76 77 80 81 to 86 88 89 90 91; treated by Professor Hennedy as an introduced rose in the western lowland counties; and the same by Dr. Boswell Syme, in the eastern highland counties. The Flora of Edinburgh gives it unquestioned as a native in 83 84).

354 Agrimonia Eupatoria.

Counties all, except 42 74 78 84 97 98 101 104 to 107 110 111 112.

354 Agrimonia odorata.

1 Corn. west! Cunnack cat.
2 east. Briggs ms.
3 Devon south. Briggs cat.
7 Wilts north. Preston ms.
9 Dorset. Pleydell ms.
10 Wight. More cat.
12 Hants north. Matthews.
13 Sussex west. Baker cat.
14 east. Borrer ms.
15 Kent east. F. A. Hanbury.
16 west. More sp.
17 Surrey! Roper.
18 Essex south.
27 Norfolk e. Arth. Bennett.
31 Hunts. Druce sp.
34 Gloster west. Purchas ms.
36 Hereford.
38 Warwick. Kirk cat.
41 Glamorgan. Purchas sp.
45 Pembroke. Purchas ms.
47 Montgomery. Ley cat.
48 Merioneth.
49 Carnarvon.
50 Denbigh. Stratton ms.
55 Leicester. Purchas sp.
62 York n. east. Baker sp.
67 Northumberland. Baker.
68 Cheviotland.
69 Westmoreland. More.
70 Cumber. "W.Robinson" sp.
86 Stirling. Craig-Christie rec.
88 Perth mid. Worsley sp.†
00 Clyde-isles. Syme sp. 1872.
N.B. Miss Worsley observed this plant in a cottage garden near St. Fillans, not far from the only spot in which she found the plant quasi-wild.

355 Sanguisorba officinalis.

1 Corn. west! Cunnack cat.
2 east. Goulding sp.
3 Devon south. Briggs cat.
4 north!
6 Som. north. Parfitt ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
20 Herts. Error?
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
26 Suffolk west?
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.

39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
42 Brecon.
43 Radnor. Gibson ms.
44 Carmarthen. Motley cat.
46 Cardigan.
47 Montgom. J.E. Bowman ms.
49 Carnarvon. Robinson cat.
51 Flint.
52 Anglesea. Robinson cat. ?
53 Lincoln south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester ! J.L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R.B. Bowman sp.
67 Northumb. Storey cat.
68 Cheviotland.
69 Westmoreland !
70 Cumberland !
72 Dumfries. Brand sp.
73 Kirkcudbright. Balfour sp.
75 Ayr. Duncan cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Johnston ms.
81 Berwick.
90 *Forfar.* "naturalised."

355 Poterium Sanguisorba.

1 Corn. west. Cunnack cat.
2 east. Keys sp.
3 Devon south ! Briggs cat.
4 north. Hiern.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west ! Borrer cat.
14 east ! Hall cat.
15 Kent east ! G.E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 w. Babington ms.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton !
33 Gloster east. Prentice cat.
34 w. ! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton ms.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon !
50 Denbigh. J.E. Bowman cat.
51 Flint. R. Brown ms.
52 Anglesea !
53 Linc. south ! Bloxam ms.
54 north ! Bogg cat.
55 Leicester. Ch. Bab. ms.
56 Notts.
57 Derby ! Bloxam ms.
58 Chester ?
59 Lanc. south ?

61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland!
80 Roxburgh. Duncan cat.
81 Berwick. H. M. Balf. sp.
88 Perth mid.
89 east! Syme sp.
90 Forfar.
95 Elgin? "Mr. Martin." (82 85). [72 77]. Some of these recorded habitats perhaps belong to the alien *P. muricatum*, introduced through foreign seeds or ballast, and not easily distinguished while without fruit. This latter has been noticed in 3 6 9 10 12 13 15 17 22 23 24 26 29 30 36 37 38 63.

356 Alchemilla vulgaris.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs cat.
4 north. Hiern ms.
5 Som. south. Coleman cat.
6 north. Thwaites ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. (Townsend).
12 north. (Townsend).
14 Sussex east. Borrer ms.
17 Surrey.
19 Essex north.
20 Herts. Isaac Brown sp.
21 Middlesex. Kingsley sp.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suffolk west. Jordan rec.
28 Norfolk west. Geldart.
29 Cambridge. Babington cat.
30 Bedford. Warner sp.
32 Northton.
33 Gloster east. Prentice cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Jones rec.
47 Montgomery. Melvill cat.
48 Merioneth. Ley cat.
49 Carnarvon!
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Thompson ms.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.

78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme cat.
86 Stirling!
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
84 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon cat.
07 Sutherland east!
09 Caithness! R. Brown cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
(10 " one planted root.")

357 Alchemilla alpina.

65 York n. west. Tatham sp.
69 Westmoreland!
70 Cumberland!
86 Stirling. Hooker sp.
87 Perth west!
88 mid! Worsley cat.
89 east!
90 Forfar! Brand sp.
91 Kincardine. Syme cat.†
92 Aber. south! Dickie sp.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Gordon ms.
97 Westerness! Grieve.
98 Argyle! Montgomery ms.
99 Dunbarton.
00 Clyde-isles.
03 Eb. mid. Ch. Bab. ms.
04 north. Lawson cat.
05 Ross west. Campbell sp.
06 east. Gordon cat.
08 Suth. west! Johnston ms.
09 Caith. R. Brown Campst.
10 Hebrides.
12 Shetland. Tate sp.
[3 Dartmoor, Devon; Ravenshaw flo. dev.].

357*Alchemilla conjuncta.

70 Cumberland?
90 Forfar. (Black).
00 Arran. Tyacke.

358 Alchemilla arvensis.

Counties all, except 42 60 74 89 97 98 108 110.

360 Cratægus Oxyacantha.

Counties all, except 74 107 111; often in planted hedgerows only; and few botanists regard it as being more wild in North Britain than a casual straggler, probably brought from the hedgerows by birds. Different as the *oxyacanthoides* and *monogyna* or *eriocarpa* appear in their extreme forms, I find many intermediates in Surrey, through cross-combinations of their technical characters.

(? 85–112).

361 Cotoneaster vulgaris.

49 Carnar. J. E. Bowman sp. [6].

362 Pyrus communis.

N.B. Almost invariably the botanists who have sent specimens of this tree, or marked the name in their local lists, have done so with indications of distrust as to its genuine indigenousness. In the Flora of Edinburgh, indeed, it is given as a true native; but perhaps the proper reading of that entry is, that the Flora itself cannot be safely relied upon to answer questions about nativity.

362*Pyrus Briggsii, Syme.

3 Devon south. Briggs sp.

363 Pyrus Malus.

Counties all, except 35 46 74 78 79 82 85 to 87 90 to 99 102 to 112. (1 54 60 69 72 81 88 90 94 95). 100 Hennedy cat. 101 Balfour cat. Including the casual (*mitis*) derived from garden apples along with the true Crab (*austera*) less seldom met with; the localities of the two being inextricably confused thgether by their recorders. *P. acerba* has been recorded from 3 9 11 17 21 and 27.

364 Pyrus torminalis.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Bromf. ms.
13 Sussex west. Borrer cat.
14 east. J. L. Warren.
16 Kent west.
17 Surrey. Coleman sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Barham sp.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Coleman.
26 west.
27 Norfolk east. Stock cat.
28 west?
29 Cambridge?
32 Northton. Notcutt cat.
33 Gloster east?
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcesterr
38 Warwick. Bagnall ms.
39 Stafford.
40 Salop. Leighton cat. co.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon? Robinson cat.
50 Denbigh?
52 Anglesea.
55 Leicester.
56 Notts.
58 Chester. "truly wild."

59 Lanc. s. F. M. Webb cat.
68 Cheviotland ? Tate ms.
69 Westmoreland ?
N.B. Surrey and West Kent are the only counties in which this tree has been seen by myself as an apparent native; and there it may be truly so. Perhaps the *P. scandica* or *Mougeotii* may sometimes be misnamed *torminalis*.

365 Pyrus Aria, including *P. rupicola*.

3 Devon s. Eng. Bot. ed. 3.
5 Som. south. Coleman cat.
6 north ! Atwood sp.
7 Wilts north ? Eng. Bot. 3.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south !
12 north !
13 Sussex west. Borrer cat.
14 east.
15 Kent e. G. E. Smith cat.
16 west. Mrs. Atkins sp.
17 Surrey ! Syme sp.
20 Herts.
21 Middlesex. Native ?
22 Berks. Syme sp.
23 Oxford.
24 Bucks. Britten cat.
30 Bedford ?
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. Hort sp.
36 Hereford. Purchas cat.
39 Stafford.
40 Salop.
41 Glamorgan.
42 Brecon. Ley rec.
47 Montg. J. E. Bowman ms.
49 Carnarvon. Winch ms.
50 Denbigh. J. E. Bowman ms.
54 Lincoln north. Bogg cat.
57 Derby ! Whittaker sp.
61 York s. east. Parsons rec.*
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R.B. Bowman sp.
68 Cheviotland. Eng. Bot. 3.
69 Westmoreland !
83 Edinburgh. Eng. Bot. 3.
92 Aber. south. Baker sp.
08 Suth. west. Stables sp.
(19 25 26 27 58 59 61 62 67 70 75 77 81 85 90 94 95 98 103 104; introduced or less certainly indigenous).

365*Pyrus latifolia.

3 Devon south. Briggs sp.
4 north !
5 Som. south. Gifford sp.
6 north ! Flower sp.
10 Wight. Eng. Bot. ed. 3.
34 Gloster west. Ley sp.
35 Monmouth. Ley rec.
50 Denbigh. Eng. Bot. ed. 3.

365*Pyrus fennica.

16 Kent west. J. Macnab sp.*
34 Gloster west. Sandys sp. ?
55 Leicester. Bloxam sp.*
64 York m. w. F. A. Lees cat.*
90 *Forfar*. Watson sp.*
99 *Dunbarton*. Hooker sp.
00 Arran. Syme sp. Duthie.

365*Pyrus scandica.

85 Kinross. Syme.*
00 Arran. Syme sp. Duthie.

365*Pyrus pinnatifida.

12 Hants north. Borrer sp.
13 Sussex west. Atkins sp.
50 Denbigh. Leighton.
70 Cumberland. Ley.
78 Peebles. Brotherston cat.
Doubtfully wild, and probably a hybrid between *P. Aria* and *Aucuparia*.

366 Pyrus Aucuparia.

Counties all, except 15 31 32 42 54 74 84 98 109. (Besides those counties, it is indicated as only a doubted native in 1 7 8 18 19 23 to 29, and less dubiously so in 46 59 72 85). In my own notes I find it entered without marks of doubt for counties 6 12 16 17 22 39 49 50 59 69 70 83 87 88 89 90 92 96 97 106 107 108.

367 Epilob. angustifolium.

3 Devon south. Briggs cat.†
4 north ?
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Preston ms.
8 south.
9 Dorset. Pleydell cat.
10 Wight !
11 Hants south ! Towns. cat.
12 north ! Towns. cat.
13 Sussex west ! Bromf. sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! Wood ms.
18 Essex south. Varenne ms.†
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex. Introduced ?
22 Berks ! Britten cat.
23 Oxford.
24 Bucks. Britten cat.
27 Norfolk east. Stock sp.
28 west.
30 Bedford. "rare."
31 Hunts. Fryer.
32 Northton. Druce rec.*
33 Gloster east. Dyer sp.
34 west. Thwaites cat.
35 Monmouth. Ch. Bab. sp.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.†
39 Stafford !
40 Salop.
41 Glamorgan. Moggridge sp.
43 Radnor. Ley cat.
47 Montgomery. Ley cat.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. s. Fowler & Lees.
54 north. Britten lre.
55 Leicester. Bloxam cat.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. e. F. A. Lees rec.
62 n. e. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. w. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Thompson sp.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland !
71 Man. Forbes cat.
72 Dumfries. Winch sp.
73 Kircudbright. Gray cat.
74 Wigton. (McAndrew).
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†

79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife. Syme cat.†
86 Stirling.
87 Perth west! Syme cat.
88 mid. Miller cat.
89 east!
90 Forfar! Graham sp.
91 Kincardine.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness!
97 Westerness! Ch. Bab. ms.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
08 Suth. west.
09 Caith. Brown Campst. cat.
11 Orkney. Syme sp.
12 Shetland. Tate cat.

N.B. Reckoned up by the number of its counties, this might appear to rank among common plants; but being quite a local plant in several counties, and perhaps too uncertainly native in others named above, its counties have been cited in detail.

368 Epilobium hirsutum.

Counties all, except 42 71 74 78 92 (93) 94 95 (96) 97 to 108 (109) 110 [111] 112. Less numerous than the preceding, as to its counties, but too abundant in England to be placed among the non-common plants.

369 Epilob. parviflorum.

Counties all, except 42 43 61 72 73 74 78 84 97 98 103 106 to 109 111 112.

370 Epilobium montanum.

Counties all, except 74; in which doubtless it may be found.

371 Epilob. lanceolatum.

2 Cornwall east. Briggs sp.
3 Devon south. Briggs sp.
12 Hants north. Baker sp.
13 *Sussex west.* Borrer.†
17 Surrey! Clearly indigenous.
34 Gloster west. Thwaites sp.
35 Monmouth.

371*Epilobium roseum.

1 Corn. west. Briggs, 1871.
3 Devon south. Briggs sp.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
11 Hants south! More ms.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman sp.
16 Kent west. Syme sp.
17 Surrey! Ellis sp.
18 Essex south.
19 north. Bentall sp.
20 Herts. Isaac Brown sp.
21 Middlesex. Varenne ms.
25 Suffolk east?
30 Bedford. Newbould.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bromwich sp.
39 Stafford!

41 Glamorgan.
43 Radnor. E. H. Jones cat.
55 Leicester. Coleman ms.
56 Notts. Howitt sp.
57 Derby. Bloxam sp.
58 Chester. J. L. Warren cat.
59 Lanc. south. Windsor sp.
60 west!
62 York n. east. Baker sp.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. w. R.B. Bowman sp.
83 Edinb. F. M. Webb rec. (8 10 66) [82 85 90 95; insufficiently vouched].

372 Epilobium palustre.

Counties all, except 31 32 34 41 48 72 74 103.

373 Epilobium tetragonum, including *obscurum*.

Counties all, except 42 74 78 80 84 97 98 105 106 to 108 112. The aggregate, that is, including both the subjoined segregates.

373 Epilob. eu-tetragonum.

2 Corn. east. Briggs cat.
3 Devon south. Briggs sp.
4 north. Dyer.
9 Dorset. Rogers rec.
10 Wight!
11 Hants south. Towns. cat.
13 Sussex west. Baker cat.
14 east.
15 Kent east!
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts. R. A. Pryor.
21 Middlesex.
29 Cambridge.
34 Gloster west. Flower sp.
36 Hereford.
38 Warwick. Kirk sp.
54 Linc. north. Fowler rec.
55 Leicester?
58 Chester. F. M. Webb.
83 Edinburgh?
89 Perth mid?

N.B. Less frequent, and perhaps much less widely distributed than is the *Ep. obscurum*. The absolute distinctness of the two seems questionable, because intermediate forms occur, which are not confidently assignable to one of the segregates only.

373 Epilobium obscurum.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
6 Som. north. Clark sp.
7 Wilts north. Preston ms.
9 Dorset. Pleydell rec.
10 Wight. More sp.
11 Hants south! Towns. cat.
12 north! Baker cat.
13 Sussex west. Baker cat.
14 east. Roper.
15 Kent east.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Hertford. R. A. Pryor.
21 Middlesex.
22 Berks!
23 Oxford. (Druce rec.)
24 Bucks. Britten cat.
27 Norfolk east. Babington.
29 Cambridge.

32 Northton. Druce rec.
35 Monmouth.
36 Hereford.
38 Warwick. Kirk sp.
43 Radnor. Ley cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon.
51 Flint. R. Brown.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west!
62 York n. east. Baker sp.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland. Baker cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
83 Edinburgh.
85 Fife. Syme cat.
86 Stirling.
87 Perth west.
88 mid. Miller cat.
89 east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aberdeen south!
00 Clyde-isles. Syme sp.
02 Ebudes mid. Grieve cat.
05 Ross west. (Druce).
09 Caithness.
11 Orkney. Boswell.

No doubt also in many other counties. I think to have seen it in Sutherland.

374 Epilobium alpinum. including *anagallidifolium*.

66 Durham. Trevelyan sp.
68 Cheviotland. Tate sp.
70 Cumber. Addison sp. 1867.
85 Fife?
86 Stirling.
87 Perth west.
88 mid! Worsley cat.
89 east! Brand ms.
90 Forfar! Brand sp.
91 Kincardine.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness!
98 Argyle.
99 Dunbarton.
04 Eb. north. Lawson sp.
05 Ross west.
06 east.
08 Suth. west! Graham sp.

N.B. I do not know how to distinguish the "*anagallidifolium*" from the plant which stands in my notes as *alpinum*. It may be on this account that I scarcely know where to draw the line between this present and the next species. [49 56 64; errors].

374 Epilob. alsinifolium.

49 Carnar.! J. E. Bowman ms.
65 York n. west. Baker sp.
66 Durham.
68 Cheviot. W. H. Brown sp.
69 Westmoreland!
70 Cumberland! Oliver sp.
72 Dumfries.
80 Roxburgh. Brotherston rec.
85 Fife.
87 Perth west. Syme sp.
88 mid! Hooker sp.
89 east!
90 Forfar! Balfour sp.

92 Aber. south !
94 Banff. Gordon ms.
96 Easterness !
97 Westerness.
98 Argyle. Church Bab. sp.
04 Eb. north.
08 Suth. west ! Graham sp.
12 Shetland.
N.B. Approximates to *alpinum* on one side, towards the mountain states of *obscurum* on the other side; thus introducing some degree of uncertainty into the reports of its localities. [44].

376 Isnardia palustris.

11 Hants south.
14 Sussex east. Hooker sp.
[70 Cumberland].

377 Circæa lutetiana.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
18 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north. Towns.
13 Sussex west ! Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west. Roper.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 w. Babington ms.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. S. Foster sp.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford ! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
47 Montgomery.
48 Merioneth. Britten. Ley.
49 Carnarvon ! Twining sp.
50 Denbigh ! J.E. Bowman cat.
51 Flint !
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt ms.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west !
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Paine sp.
66 Durham. Norman cat.
67 Northumb. Makepeace sp.
68 Cheviot. Embleton sp.
69 Westmorland !

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70 Cumberland! Baker cat.
71 Man. Forbes cat.†
72 Dumfries. Gordon ms.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Brand sp.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west.
88 mid. Worsley cat.
90 Forfar? "G. Don."
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
96 Easterness?
99 Dunbarton?
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Ebudes mid. Ross cat.
08 Suth. east?
09 Caithness?

N.B. Treated as a non-common plant on account of its rarity in North Britain, with a comparatively sparse distribution elsewhere; although it may actually occur in every county of South and Mid Britain.

377-8 Circæa intermedia.

34 Gloster west. Purchas sp.
39 Stafford.
48 Merioneth. (W. W. Reeves.)
50 Denbigh. Sandys sp.
57 Derby. Whittaker sp.
58 Chester. G. E. Hunt sp.
59 Lanc. south?
63 York s. west. Leyland sp.
64 York m. west.
65 York n. west.
66 Durham? "Storey." Error?
69 Westmoreland. Watson sp.
70 Cumberland. Crotch sp.
77 Lanark. Mrs. Russell sp.
81 Berwick. Brotherston rec.
83 Edinburgh. Arth. Bennett.
88 Perth mid. Watson sp.
89 east. Gardiner sp.
90 Forfar? Don only?
95 Elgin. Gordon sp. "Moray."
99 Dunbarton.
00 Clyde-isles. Balfour sp.
01 Cantire? Balfour cat.
02 Eb. south. Balfour sp.
08 Suth. west? *C. alpina?*

N.B. A most troublesome plant. In citing the specimens from my herbarium I follow Dr. Ascherson, of Berlin, who appeared to know the *intermedia* better than I can make it out; my own view still inclining to a belief that approximating forms of *lutetiana* and of *alpina* equally get assigned to the *intermedia*. For example, I refer my own Westmoreland specimens confidently to *alpina* and Mr. Hunt's Cheshire (Cotterill Wood) examples less confidently to *lutetiana;* that is, assuming two species only.

378 Circæa alpina.

38 *Warwick.* Introduced.
49 Carnarvon. (B. D. Jackson).
65 York n. w. F. A. Lees rec.
69 Westmoreland!
70 Cumberland!
87 Perth west. Syme cat.
88 mid! Miller.

89 Perth east?
90 Forfar. Gard. flo.
91 Kincardine. Dickie Guide.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff. Dickie Bot. Guide.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
97 Westerness. *intermedia ?*
98 Argyle. *intermedia ?*
99 Dunbarton. Clyde flo.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour sp.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. Light. scot.
06 east. Gordon ms.
08 Suth. west. Johnston ms.

[6 25 35 39 43 44 47 48 49 50 55 57 58 59 63 64 67 68 75 77 82 83 85 111; insufficiently vouched; partly erroneous, although perhaps not wholly so; and some of the counties named are at best uncertain.].

379 Hippuris vulgaris.

1 Cornwall west? Extinct?
3 Devon south.
6 Som. north. Thwaites ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns.
12 north! Towns.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent east!
17 Surrey!
19 Essex north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper.
27 Norfolk east.
28 west.
29 Cambridge. Harris sp.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east.
36 Hereford. Purchas ms.
37 Worcester. Buckman sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan. Moggridge sp.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. s. F. A. Lees rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Tate ms.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.

81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall sp.
88 Perth mid. (F. B. White).
89 east.
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle. Gibson ms.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate cat.

380 Myriophyllum verticillatum.

1 Corn. west ? Tellam.
6 Som. north. Collins ms.
7 Wilts north. Flower cat.
9 Dorset. Pleydell
11 Hants south. Notcutt cat.
12 north.
13 Sussex west ! Borrer cat.
14 east.
15 Kent e. ! G. E. Smith cat.
17 Surrey !
18 Essex south. Wallis sp.
19 north. Varenne ms.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper.
27 Norfolk east. Stock sp.
28 west. Notcutt sp.
29 Cambridge. G. S. Gibson sp.
30 Bedford. Hillhouse.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east.
34 west.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford ?
40 Salop.
52 Anglesea.
53 Linc. south.
54 north. Bogg cat.
55 Leicester.
56 Notts. Howitt sp.
57 Derby. Bloxam ms.
58 Chester.
59 Lanc. south. Bloxam ms.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Baker sp.
66 Durham.
67 Northumb. R.B.Bowman sp.
69 Westmoreland. Miss Beevor.
70 Cumberl. Baker cat. 1871.
[45 50 51 95 111, insufficiently vouched, and the two latter certainly errors; and in some of the other counties perhaps the plant thus named was truly *alterniflorum*].

381 Myrioph. "spicatum." Aggregate.

Counties all, except 2 5 42 43 46 47 48 51 53 61 71 74 78 86 93 97 98 99 101 104 105 107 [112]. This is the recorded distribution of *spicatum* more or less confused with *alterniflorum*. This latter is a segregate

of recent date; the older records apparently assigning some of its localities to *spicatum*, and others of them to *verticillatum*; a confusion still occasionally made down to present time.

381 Myrioph. spicatum!

3 Devon south. Briggs sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
15 Kent east!
17 Surrey! Coleman cat.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts.
21 Middlesex!
22 Berks. (Druce rec.)
23 Oxford. (Druce rec.)
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
34 Gloster west. Ley rec.
36 Hereford. Shawe sp.
38 Warwick. Kirk cat.
40 Salop. Leighton.
42 Brecon. Ley rec.
43 Radnor. E. H. Jones cat.
45 Pembroke. Babington cat.
54 Lincoln north!
55 Leicester. Bloxam cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west! Simpson sp.
61 York s. e. (F. A. Lees rec.)
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Norman cat.
67 Northum. R.B. Bowman sp.
68 Cheviotland.
69 Westmoreland!
70 Cumber. Baker cat. 1871.
76 Renfrew. Clydesdale flo.
77 Lanark. Clydesdale flo.
78 Peebles. Brotherston cat.
83 Edinburgh! Graham sp.
85 Fife. Syme cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
00 Clyde-isles. Hennedy cat.
10 Hebrides. Balf. Bab. flo.
11 Orkney. Syme ms.

N.B. The others are too uncertain and reckoned under the aggregate "*spicatum*."

382 Myrioph. alterniflorum.

1 Corn. west. Briggs.
2 east. Pascoe cat.
3 Devon south. Briggs sp.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns.
12 north! Towns.
13 Sussex west. Borrer cat.
14 east. Roper.
17 Surrey!
18 Essex south.
19 north. Ray sp.
20 Herts. Coleman.
21 Middlesex.
22 Berks.
29 Cambridge. Babington sp.
31 Hunts. Berkeley ms.
34 Gloster west.
36 Hereford. Ley sp.
38 Warwick. Kirk cat.
40 Salop. Bidwell sp.
45 Pembroke. Babington cat.
49 Carnarvon.
51 Flint. Robinson cat.
54 Lincoln north!
55 Leicester. Bloxam sp.

58 Chester.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Parsons rec.
62 York n. east. Baker sp.
63 s. west.
64 m. west. Baker sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland. Borrer ms.
70 Cumberland. Oliver sp.
78 Peebles. Dyer.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme sp.
83 Edinburgh.
85 Fife. I. B. Balfour ms.
87 Perth west. Croall rec.
88 mid. (F. B. White).
89 east. Syme sp.
92 Aber. south! Dickie sp.
93 north.
96 Easterness!
00 Clyde-isles. Hennedy cat.
02 Ebudes south. Grieve.
04 north.
08 Suth. west. Oliver sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme.
12 Shetland.

383 Callitriche verna.

Counties all, except 42 74 93 105 106 107. Such is the recorded distribution of *C. verna;* but no doubt more or less including the two other very unsatisfactory species treated underneath as nos. 384 and 385.

384 Callitriche platycarpa.

Counties all, from 1 to 112; but with many exceptions to the records through botanists not generally distinguishing this from the preceding. My list of counties affords no sufficient authorities for the following :—4 6 8 16 25 26 35 37 39 41 42 43 48 50 51 54 56 57 60 61 71 72 73 75 79 84 90 93 95 97 103 106 to 109; in some of these counties very likely seen by myself without special notes being kept.

384*Call. obtusangula.

1 Corn. west. Tellam rec.
3 Devon south. Briggs.
11 Hants south. Groves sp.
13 Kent east Duthie sp.
14 Sussex east. Beeby.
15 Kent east. Duthie sp.
16 west. Groves rec.
17 Surrey. Groves rec.
20 Hertford. Blow rec.
21 Middlesex. Groves rec.
29 Cambridge. Blow sp.
30 Bedford. (R. A. Pryor).
33 or 34 Gloster. (Duthie).
38 Warwick. (Bagnall).
54 Linc. n. F. A. Lees rec.
58 Chester. J. L. Warren.

385 Callitriche hamulata.

(*C. pedunculata*).

Counties all, from 1 to 112; but with still more numerous exceptions. Several segregates are included, very dubiously distinct, and variously named at different dates. The plant varies much according to its situations, in deep water, in

shallow water, in still or running water, or in places alternately covered with water or left bare. The variations so induced are described as different species; their localities inextricably confused in book records.

386 Callitriche autumnalis.

3 Devon south. "Parfitt sp."
52 Anglesea. Babington sp.
58 Chester. J. L. Warren sp.
64 York m. w. F. A. Lees cat.
67 Northumb. Thornhill sp.
68 Cheviotland. New flo.
80 Roxb. Brotherston rec.
85 Fife. Boswell Syme sp.
87 Perth west. Stables sp.
89 east. Syme.
90 Forfar. Sturrock.
91 Kinc. Dickie sp. Syme sp.
95 Elgin. Gordon cat.
02 Eb. south. Balfour cat.
06 Ross east. Gordon cat.
09 Caith. Brown Campst. cat.
11 Orkney.
"Loch of Glum; Arnott."
"Loch Clunie;" Stables, &c.
[9 12 15 17 19 21 25 30 36 37 38 39 41 46 52 55 56 59 62 65 70 82 108 112; all insufficiently vouched, and most of them errors through mistaking some form of no. 385 for the present clearly distinct plant].

387 Callitriche truncata.

13 Sussex west. Borrer.

388 Ceratophyllum aquaticum.

1 Cornwall west.
3 Devon south.
6 Som. north. Hort sp.
7 Wilts north. Flower cat.
8 south?
9 Dorset. Pleydell cat.
10 Wight. Stratton.
11 Hants south!
13 Sussex west. Borrer cat.
14 east. Baker.
15 Kent e.! G. E. Smith cat.
16 west. Groves sp.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex! Sansom sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norf. east.
28 west. Notcutt sp.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Druce.
33 Gloster east. Hort sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk sp.
39 Stafford. Douglas cat.
40 Salop. Leighton cat. co.
44 Carmarthen. Motley ms.
49 Carnarvon? Robinson cat.
50 Denbigh? Faun. Grust.
51 Flint? Robinson cat.
52 Anglesea? Robinson cat.
53 Linc. south. F. A. Lees.
54 north. Bogg cat.
55 Leicester. Bloxam ms.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east. Parsons.
62 n. east.

63 York s. west. Parsons.
64 m. west.
66 Durham. Norman cat.
81 Berwick.
83 Edinburgh. Arnott sp.
84 Linlithgow. Balfour sp.
S. E. Highlands ?
90 Forfar. Sturrock.

389 Lythrum Hyssopifolia.

1 Corn. west. Pascoe.
2 east.
20 Herts. Coleman sp.
27 Norf. east. Miss Barnard.
29 Cambridge. Hooker sp.
32 Northton. Berkeley ms. [3 70]. (10 15 17 21 22 23 26 30 31 37 39 44 55 56 57 59 64 80; casual or erroneously reported).

390 Lythrum Salicaria.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Stock cat.
26 west. Babington ms.
27 Norf. east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge.
30 Bedford. Hillhouse.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. (Arth. Bennett).
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northum. R.B. Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland!

70 Cumberland ! Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Soutter rec.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme sp.
82 Haddington. Balfour sp.
85 Fife. Syme sp. and cat.†
87 Perth west.
88 mid. Miller.
89 east. (F. B. White).
97 Westerness. Sadler.
98 Argyle. Gordon ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.

N.B. Although plentiful in England, this is too local in Scotland to come under the "common plants."

391 Peplis Portula.

Counties all, except 6 33 42 68 71 73 74 78 80 82 84 86 97 98 104 105 107 110 112; likely to be found in all of these, unless in the two or four highest numbered.

393 Bryonia dioica.

3 Devon south. Planted ?
4 north ?
5 Som. south. Collins ms.
6 north !
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south ! Notcutt cat.
12 Hants north ! Towns. cat.
13 Sussex west ! Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
16 Kent west !
17 Surrey ! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norf. east. Sir J. Paget sp.
28 west. Miss Bell sp.
29 Cambridge.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton !
33 Gloster east. Prentice cat.
34 . west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester ! Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
48 Merioneth. Ley cat.
49 Carnarvon ? Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Gordon ms.
53 Linc. south !
54 north ! Bogg cat.
55 Leicester. Coleman ms.
56 Notts. Church. Bab. ms.
57 Derby. Howitt cat.
58 Chester ! J. L. Warren cat.†
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.

63 York s. west. Ch. Bab. ms.
64 m. w. F. A. Lees cat.
65 n. w. R.B. Bowman sp.
66 Durham. Ward sp.
67 Northumberland.
68 *Cheviotland*. Chrisp ms.
75 *Ayr*.

394 Montia fontana.

Counties all, except 31 42 74 79 82 84 98 107; doubtless to be found in every county.

395 Illecebrum verticillatum.

1 Corn. west! Cunnack sp.
2 east. Pascoe cat.
3 Devon south?
4 north?

396 Corrigiola littoralis.

1 Corn. west! Cunnack sp.
3 Devon south. Goulding sp.

397 Herniaria glabra.

26 Suff. west. Skepper ms.
27 Norf. west. Wardale sp.
29 Cambridge.
53 Lincoln south?
[6 11 21 25 41 56 59 81 88 or 89; insufficiently vouched, and mostly errors].

397*Herniaria ciliata.

1 Corn. west! Pascoe sp.

397*Herniaria hirsuta.

11 Hants south. Townsend sp.

398 Polycarpon tetraphyllum.

1 Corn. west! Cunnack cat.
2 east?
3 Devon south. Bromf. ms.
9 Dorset. Borrer ms.
(21 41 61 80; introduced into these counties, if not simply errors in 41 61).

399 Scleranthus annuus.

Counties all, except 5 31 35 41 42 43 45 47 48 60 69 74 97 98 103 104 105 110 111 112; perhaps really absent from the three or four last numbered counties.

400 Scleranthus perennis.

26 Suffolk west. Bunbury sp.
27 Norf. east?
28 west. Wardale sp.
38 Warwick. Bromwich.
43 Radnor. Purchas sp.
[5 or 6 15 17 32 39 48 58 90; all or mostly errors].

401 Ribes nigrum.

N.B. Scarcely any botanists whose opinions can be held of any weight in the question of indigenousness, omit the mark, or other indication of uncertain nativity, in connexion with the name of this shrub.

404 Ribes rubrum.

N.B. This is nearly as much questioned as the preceding, although on the whole less

positively rejected as a native shrub. Possibly it may be indigenous in the provinces of Humber, Tyne, Lakes, East and West Highlands; although chiefly in form of *petræum* or *spicatum*, if not exclusively so.

404 Ribes petræum.
(*R. Smithianum*).

64 York m. west. Baker sp.
65 n. west. Ward sp.
66 Durham. New flo.
67 Northumb. New flo.
69 Westmoreland.
70 Cumberland!
87 Perth west. Syme cat.†
88 mid!
90 Forfar?
93 Aber. north?
95 Elgin. Gordon sp.
96 Easterness. Gordon sp.
02 Eb. south. Balfour sp.
04 north. "*spicatum*."

N.B. Passes into the *sylvestre* variety of *rubrum* by intermediate degrees of pubescence, etc. See Comp. Cyb. Brit. page 414.

405 Ribes alpinum.

34 Gloster west? Waring, B.G.
36 Hereford. Purchas flo.*
38 Warwick? With. arr.
39 Stafford. Garner, "wild."
41 Glamorgan?
44 Carmarthen. Milne.†
49 Carnarvon. Davies.
50 Denbigh. J.E. Bowman cat.
52 Anglesea. Welch Bot.
55 Leicester. Coleman flo.*
56 Notts. Howitt flo.
57 Derby. Purchas ms.†
58 Chester? Bradbury.
59 Lanc. s. F. M. Webb cat.*
61 York s. east? "recorded."
62 n. east. Baker cat.
63 s. west? Dill, R.S.
64 m. west. Tatham cat.
65 n. west. "native."
66 Durham. New flo.†
67 Northumberland. New flo.†
68 Cheviotland. New flo.†
69 Westmoreld. Annals of K.
70 Cumberland. Jos. Robson.
76 Renfrew. Clydesdale flo.†
77 Lanark. Hennedy cat.*
80 Roxburgh. Brotherston.*
81 Berwick. Brotherston.*
83 Edinburgh. Balf. flo.*
84 Linlithgow. Balf. flo.*
89 Perth east. (F.B.White *).
92 Aber. south. Dickie G.*

N.B. This shrub has been often planted in the gardens and shrubberies of North England, probably on account of its early leafing and flowering, unshowy as its flowers are. Nowhere seen by myself in a truly wild state. In citing the reported counties here book records have been resorted to, with the double series of marks, to indicate greater (*) or less (†) suspicion against the true nativity of the shrub.

406 Ribes Grossularia.

N.B. When we attempt to trace the distribution of this shrub through Britain, county by county, the adverse opinions against its real nativity greatly predominate over the very few given in sup-

port. What can be said in favour of its nativity, may be seen on pages 377 to 382 of Phytologist, volume third; and those who admire a rambling and illogical style of writing may there find a striking example of the late Dr. Bromfield's capacity for wordiness of that kind. Recorded in eighty counties; chiefly, if not solely, the offspring or descendants from seeds conveyed out of gardens.

407 Tillæa muscosa.

2 Corn. east?
3 Devon south. Briggs sp.
9 Dorset. Pleydell cat.
11 Hants south. Towns. cat.
25 Suff. east. Stock sp.
26 west. Babington ms.
27 Norf. east. Hooker sp.
28 west. Miss Bell sp.
[22 Berks; Brit. contrib.].

408 Sedum Rhodiola.

42 Brecon,—or Glamorgan?
48 Merioneth.
49 Carnarvon!
64 York m. west. Baker.
65 n. west. Baker sp.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland!
71 Man. J. Macnab ms.
75 Ayr. Duncan cat.
81 Berwick. Syme sp.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid!
89 Perth east. (F. B. White).
90 Forfar! Croall sp.
92 Aber. south! Dickie cat.
93 north. "sea-coast."
96 Easterness!
97 Westerness!
98 Argyle. Hooker sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon cat.
08 Suth. west! Ch. Bab. ms.
09 Caithness. Nicolson cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate sp.

409 Sedum Telephium.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Edmonds sp.
6 Somerset. Southby ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. "Pulteney."
10 Wight. Bromfield ms.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! Indigenous?
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! An escape?
22 Berks.
23 Oxford.
24 Bucks. Britten cat.

25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bab.
29 Cambridge. Extinct?
30 Bedford. Hillhouse cat.
32 Northton. Berkeley ms.
34 Gloster w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick.
39 Stafford. Bloxam sp.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Jones cat.
47 Montgomery. Melvill cat.
48 Merioneth.
49 Carnarvon!
50 Denbigh! R.B. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
57 Derby! Norman sp.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Baker ms.
67 Northumberland.
68 Cheviotland. Tate cat.†
69 Westmoreland!
70 Cumberland. Baker cat.
72 Dumfries. Miss Twining sp.
73 Kirkcudbright. Syme sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Balfour cat.
85 Fife. G. Lawson ms.†
87 Perth west. Syme cat.†
88 mid. Miss Worsley.†
89 east!†

(54* 86* 90 92 95 96 111 112; introduced to these counties; likely so to several of those enumerated by name). It appeared to me truly native on the coast rocks near the Land's End, Cornwall. It may be so in Surrey; though I feel undecided about that county as well as all the rest distinguished by the sign "!"

409*Sedum Fabaria.

30 Bedford. Hillhouse cat.
43 Radnor. Ley cat.
69 Westmoreland. Ley cat.
79 Selkirk. Farquharson cat.

410 Sedum villosum.

64 York m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. Baker sp.
67 Northumb. Thompson sp.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh! G. Macnab sp.
84 Linlithgow. Balfour cat.
85 Fife.
86 Stirling. Duthie sp.
87 Perth west! Syme cat.
88 mid. Miller cat.

90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
98 Argyle. Balfour sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
[59 "James Roscoe."]

412 Sedum anglicum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Salmon ms.
14 east. Maw sp.
15 Kent east. French sp.
19 Essex north? "Irvine."
25 Suff. east. Varenne sp.
27 Norfolk east. Paget sp.
40 Salop. Leighton cat. co.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Twining sp.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon!
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea!
58 Chester. J. L. Warren cat.
59 Lanc. south.
62 York n. east. "Mudd sp."
65 n. w. F. A. Lees rec.
68 Cheviot. Embleton sp.
69 Westmoreland. Crotch sp.
70 Cumberland. Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew, Hennedy cat.
85 Fife! May Isle.
87 Perth west! Syme cat.
88 mid. Miller cat.*
90 Forfar.
95 Elgin. Gordon cat.
97 Westerness. Ch. Bab. ms.
98 Argyle! Church. Bab. ms.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ch. Bab. ms.
04 north. Lawson cat.
05 Ross west. (Druce).
10 Hebrides.
12 Shetland.
[28 92; both errors?]

414 Sedum acre.

Counties all, except 46 47 74 79 97 104 105 107 112; likely to occur in these also, unless the last of them.

415 Sedum reflexum.

N.B. This cannot be treated as a true native. It is reported from over sixty counties, usually as an escape from gardens. Two garden species pass under this name; one of which is also occasionally mistaken for *rupestre*, when found in a quasi-wild state. In turn, the truly wild *S. rupestre* is made up out of two other species; one of these other two being much confused with *S. Forsterianum*. Herbarium spe-

cimens of the five plants, thus confused together, are seldom in a state to yield much aid in diagnosis. The book characters, especially those of the two treated underneath, are misleading through describers mistaking mere states of growth or luxuriance for specific characters, *ex. gr.* "leaves in rose-like tufts."

416 Sedum rupestre. "elegans."

4 Devon north.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
34 Gloster west. Borrer ms.
35 Monmouth. Purchas ms.
40 Salop.
43 Radnor. Purchas ms.
46 Cardigan. Miss Atwood.
47 Montgomery. Newman ms.
48 Merioneth. Newman ms.
49 Carnarvon. Rev. J. Harris.
(3 15 27 32 38 66 67 68 69 74 86). [36 52 57].

416*Sedum Forsterianum. aureum, Wirtgen ?

5 Som. south. Flower.
36 Hereford. Purchas ms.
40 Salop. Leighton cat. co.
41 Glamorgan.
43 Radnor. Purchas ms.
46 Cardigan.
47 Montgomery. Bloxam ms.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J.E. Bowman ms.
[3 5 6 32 35; very uncertain; nor can much trust be given to the counties assigned by name above either to this species or to the preceding].

418 Cotyledon Umbilicus.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Bloomfield.
15 Kent e. G. E. Smith cat.
17 Surrey!
22 Berks. Miss Bell ms.
23 Oxford.
32 Northton. Druce.*
34 Gloster west! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Bree ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Dyke sp.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
47 Montg. J. E. Bowman ms.
48 Merion. J. E. Bowman ms.
49 Carnarvon! Stables sp.
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea!
55 Leicester. Howitt ms.
57 Derby. Church. Bab. sp.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.

63 York s. west. Leyland sp.†
65 n. w.? "Miss Otter."
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
73 Kirkcudbright. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
98 Argyle. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
03 Ebudes mid. Stables sp.

422 Saxifraga stellaris.

47 Montg. J. E. Bowman ms.
48 Merioneth. Butler sp.
49 Carnarvon!
50 Denbigh. J.E. Bowman ms.
51 Flint.
64 York m. w. F. A. Lees cat.
65 n. west. Pinder ms.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland!
72 Dumfries.
78 Peebles.
79 Selkirk. Farquharson cat.
85 Fife.
86 Stirling. Hooker sp.
87 Perth west. Syme sp.
88 mid! Miller cat.
89 east!
90 Forfar!
91 Kincardine. Boswell ms.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
95 Elgin.
96 Easterness! Gordon ms.
97 Westerness! Grieve.
98 Argyle. Montgomery ms.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ch. Bab. ms.
04 Eb. north.
05 Ross west. (Druce).
06 east. Gordon ms.
08 Suth. west! Graham sp.
09 Caith. Brown Campst. cat.
10 Hebrides.

423 Saxifraga nivalis.

49 Carnarvon. Butler sp.
69 Westmoreland. very rare.
70 Cumberland. very rare.
86 Stirling. Hooker sp.
88 Perth mid! Gourlie sp.
89 east. Brand sp.
90 Forfar! H. M. Balfour sp.
92 Aber. south! Dickie cat.
97 Westerness. Sadler.
98 Argyle.
99 Dunbarton. "Voirlich."
03 Eb. mid?
04 north. Lawson cat.
[48 50; misnomers].

424 Saxifraga Hirculus.

58 Chester. Extinct.
65 York n. west. Oliver sp.
66 Durham.
69 Westmoreland. Baker ms.
77 Lanark. Campbell sp.
81 Berwick. Johnston sp.
83 Edinburgh. Balfour cat.
87 Perth west. Syme "v. s."
[Aberdeen? "James Rae."]

425 Saxifraga aizoides.

64 York m. west. Baker sp.
65 n. west. Pinder ms.
66 Durham. R. B. Bowman sp.
67 Northumberld. Winch sp.
69 Westmoreland!
70 Cumberland!
71 Man. J. Macnab. ms.
75 Ayr. Landsborough ms.

76 Renfrew. Hennedy cat.
86 Stirling.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar! Brand sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Grieve.
98 Argyle! Hooker sp.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east! Gordon ms.
07 Suth. east. Syme sp.
08 west! Ch. Bab. ms.
11 Orkney. Neill. Syme ms.
[49 57 58; errors?].

426 Saxifraga oppositifolia.

42 Brecon.
48 Merioneth.
49 Carnarvon!
64 York m. west. Rylands sp.
69 Westmoreland.
70 Cumberland!
72 Dumfries.
77 Lanark. Planted?
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid! Miller cat.
89 east!
90 Forfar! G. Macnab sp.
92 Aber. south! Dickie cat.
93 north. On sea cliffs.
96 Easterness! Gordon ms.
97 Westerness!
98 Argyle. Ch. Bab. ms.
00 Clyde-isles.
01 Cantire. Balfour sp.
04 Eb. north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon ms.
08 Sutherland west!
09 Caith. Brown Campst. cat.
11 Orkney? Syme ms.
12 Shetland.

427 Saxifraga granulata.

6 Som. north. Flower sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south.
12 north.
14 Sussex east. Roper.*
15 Kent e. G. E. Smith cat.
17 Surrey! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Isaac Brown sp.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bloomfield.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Notcutt cat.
33 Gloster east. Dyer ms.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
43 Radnor. Ley cat.
47 Montgomery. Melvill cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.

52 Anglesea.
53 Linc. south. Bloxam ms.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south. Scholes sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Storey ms.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland !
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Brand sp.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Gourlie sp.
87 Perth west. Syme cat.
88 mid. Gordon ms.
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Miss Boswell.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
(71 111).

428 Saxifraga cernua.

88 Perth mid !

429 Saxifraga rivularis.

88 Perth mid.
90 Forfar ? ?
92 Aber. south. Hooker sp.
97 Westerness !

430 Saxifraga tridactylites.

1 Corn. west.
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 w. Babington ms.
27 Norfolk east. Cooper cat.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.

38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke.
48 Merioneth. Price sp.
49 Carnarvon!
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J.L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n.w. J.B.Bowman sp.
66 Durham.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
79 Selkirk. Farquharson cat.
82 Haddington. Christy sp.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife.
89 Perth east. (F. B. White).
90 Forfar. Croall sp.
92 Aber. south.
93 north. Dickie flo.
96 Easterness. "Dr. Hope."
06 Ross east. "Mr. Brichan."
07 Suth. east. "Dr. Gordon."
09 Caith. Brown Campst. cat.

431 Saxifraga hypnoides.

6 Som. north. Clark ms.
35 Monmouth. Ley.
36 Hereford. Gissing ms.
39 Stafford. Bloxam ms.
40 Salop.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor.
47 Montgomery. Melvill cat.
48 Merioneth. Ley cat.
49 Carnarvon! Streeten sp.
50 Denbigh. J.E.Bowman cat.
57 Derby! Howitt cat.
64 York m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham. R.B.Bowman sp.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
83 Edinburgh! Brand sp.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid! Miller cat.
89 east. (F. B. White).
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff. Dickie ms.
96 Easterness!
97 Westerness! Grieve.
98 Argyle.
99 Dunbarton. Gourlie sp.
00 Clyde-isles. Hennedy cat.
01 Cantire.
04 Eb. north. Ch. Bab. sp.
05 Ross west. (Druce).
08 Sutherland west!
09 Caithness. Nicolson cat.*
11 Orkney?
[3]. (9 38).

432 Saxifraga cæspitosa.

94 Banff. Dr. M. Barry sp.
97 Westerness. "J. Woods."
[49 57 69 70 90 92].

434 Chrysosplenium oppositifolium.

Counties all, except 29 31 42 53 74 98 107 110 112; likely to be found in all, unless the two first and two last should be real exceptions. Far from common in the south-eastern counties of England.

435 Chrys. alternifolium.

4 Devon n. "Wainwright."
5 Som. south. Coleman sp.
6 north.
7 Wilts north. Flower sp.
8 south.
9 Dorset. Pleydell cat.
12 Hants north. Ellis sp.
15 Kent e. G. E. Smith cat.
17 Surrey. Kingsley sp.
18 Essex south.
19 north.
22 Berks.
24 Bucks? Hurst ms.
25 Suffolk east. Coleman sp.
27 Norfolk east.
28 west.
33 Gloster east. Prentice cat.
34 west. H.W. Reader.
35 Monmouth.
36 Hereford.
37 Worcester. Bagnall sp.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Bidwell sp.
41 Glamorgan. Dyke sp.
49 Carnarvon. Robinson cat.
50 Denbigh! J.E. Bowman cat.
51 Flint.
54 Lincoln north. Allen rec.
55 Leicester.
56 Notts.
57 Derby. Howitt sp.
58 Chester.
59 Lanc. south! Goodlad hb.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Miss Pringle sp.
69 Westmoreland.
70 Cumberland. Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Johnston ms.
82 Haddington.
83 Edinburgh! Brand sp.
86 Stirling. Farquharson rec.
87 Perth west. Syme cat.
88 mid!
89 east. (F. B. White).
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle. (Ross rec).
99 Dunbarton.
[16 error of species?].
[24 "error of county."].

436 Parnassia palustris.

9 Dorset. Pleydell "v. sp."
11 Hants south. J. S. Mill.
17 Surrey. Rev. E. Wood ms.
19 Essex north.
20 Herts. Warner sp.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Pamplin ms.
25 Suffolk east. Bloomfield.
26 west. Bunbury sp.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Roberts ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
49 Carnarvon. Babington ms.
50 Denbigh. J.E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
54 Lincoln north. Fowler rec.
55 Leicester. Ch. Bab. ms.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J.L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northum. R.B. Bowman sp.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Syme ms.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east. (F. B. White).
90 Forfar.
91 Kinc. Mrs. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Ch. Bab. ms.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon ms.
08 Suth. west! Johnston ms.
09 Caithness. Brown cat.
11 Orkney. Syme cat.
12 Shetland. Tate sp.

[6 7 8 10; insufficiently vouched, by Sole, etc.]

437 Adoxa Moschatellina.

1 Cornwall west.
2 east. Briggs.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.

9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks. Britten cat.
23 Oxford. Beesley ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Bidwell sp.
41 Glamorgan. Dyke sp.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon!
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Thompson ms.
55 Leicester. Howitt sp.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R.B. Bowman sp.
67 Northumberland.
68 Cheviot. Miss Pringle sp.
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
86 Stirling.
87 Perth west. Syme cat.
88 mid! Miller cat.
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. "Boswell."
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton?
00 Clyde-isles. Hennedy cat.
06 Ross east. Stables sp.

438 Hedera Helix.

Counties all, except 74 97 98 107 110; likely to occur in all, unless 110 be a real exception.

439 Cornus sanguinea.

1 Corn. west.
2 east. Briggs ms.

3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Nottcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Bab. cat.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Ley rec.
45 Pembroke?
48 Merioneth. Miss Barnard.
49 Carnarvon. Robinson cat.
50 Denbigh! J. E. Bowman cat.
52 Anglesea.
53 Lincoln south. Bloxam ms.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.†
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R.B. Bowman sp.
69 Westmoreland!
70 Cumberland. Wild? (67 68 77 80 to 85 88 95 102; perhaps also not truly wild in 58 59 60).

440 Cornus suecica.

62 York n. east. J. Bean sp.
68 Cheviotland. Tate ms.
88 Perth mid! Hooker sp.
89 east.
90 Forfar!
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness!
98 Argyle. (Ross rec.)
05 Ross west.
06 east. Gordon sp.
07 Sutherland east.
08 west!
[83 Edinburgh. By a trick?]

441 Hydrocotyle vulgaris.

Counties all, except 42 74 78 80 89 97 98 107 108; probably grows in all of these counties

442 Sanicula europæa.

Counties all, except 71 72 74 78 89 97 98 101 103 107 111 112.

444 Eryngium maritimum.

1 Corn. west! Curnow sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Collins ms.
6 north. Clark sp.
9 Dorset. Pleydell cat.
10 Wight! Miss Twining sp.
11 Hants south. Towns. cat.
13 Sussex w. J. L. Warren cat.
14 east. Hall cat.
15 Kent east! Buckland sp.
18 Essex south.
19 north. Skepper ms.
25 Suff. east. Purchas ms.
27 Norf. east. Paget sp.
28 west.
41 Glamorgan. Dyke sp.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. R. Brown.
52 Anglesea!
54 Linc. n.! Thompson ms.
58 Chester! J. L. Warren cat.
59 Lanc. south! Tudor sp.
60 west. Linton cat.
61 York s. east.
62 n. east.
66 Durham. Extinct?
69 Westmoreland.
70 Cumberland.
71 Man. J. Macnab ms.
73 Kirkcudb. Gordon ms.
74 Wigton. (McAndrew).
75 Ayr. Hooker sp.
82 Haddington. Balfour cat.
83 Edinburgh. Extinct?
85 Fife.
90 Forfar.
91 Kincardine?
93 Aber. north.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid.
12 Shetl.? 2 loc. in Edm. flo.

445 Eryngium campestre.

3 Devon south. Goulding sp.
6 Som. north. Clark sp. 1847.
15 Kent east. F. J. Hanbury.
25 Suff. e. Bloomfield 1856.
32 Northton. Notcutt 1843.
66 Durham. Storey sp.† 1843.
67 Northumb. "ballast hills." [1 35 36 or 37 60].

446 Conium maculatum.

Counties all, except 35 42 43 74 78 88 97 98 104 to 107 112. Dubiously indigenous northward of the Grampians.
08 Sutherland west!
09 Caithness!
10 Hebrides; Balf. Bab. cat.
11 Orkney; Syme.

447 Physospermum cornubiense.

1 Corn. west. Ar. Bennett.
2 east! Bree ms.
3 Devon south. Banker sp.

448 Smyrnium Olusatrum.

1 Corn. west. Cunnack cat.†
2 east. Briggs cat.†
3 Devon south. Briggs cat.†

4 Devon north. Maw cat.
5 Som. south. Coleman cat.
6 north. Swete flo.
9 Dorset. Pleydell cat.
10 Wight. More cat.† Bromf.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer.†
14 east. Hall ms.
15 Kent e. G. E. Smith cat.*
16 west. Pamplin ms.†
17 Surrey. Brewer flo.
18 Essex south. Gibson flo.
19 north. Varenne ms.
20 Herts. W.C. flo.*
21 Middlesex. T.D. flo.*
22 Berks. Britten Contrib.
23 Oxford. Sibthorpe flo.
24 Bucks. "reported."
25 Suff. east. Stock cat.
26 west. H. S. flo.
27 Norf. east. Trimmer flo.
28 west. Trimmer flo.
29 Cambridge. Bab. flo.*
30 Bedford. Abbot flo.
31 Hunts. Newbould cat.
34 Gloster w. Thwaites cat.†
36 Hereford. Ley rec.*
37 Worcester. E. Lees M. flo.
39 Stafford. Garner flo.†
40 Salop. Leighton flo.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
49 Carnarvon. Leefe ms.†
50 Denbigh. J.E. Bowman ms.
52 Anglesea. Davies flo.
55 Leicester. Coleman flo.*
56 Notts. Howitt flo.
58 Chester. Liverpool new flo.
61 York s. east. "denizen."
62 n. east. "denizen."
63 s. west. "denizen."
64 m. west. "denizen.',
66 Durham. "denizen."
67 Northumb. "denizen."
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick. "Parsons. Ray."
82 Haddington. Balfour cat.
83 Edinburgh. B. & S. flo.
85 Fife. Hooker flo. scot.
86 Stirling. An escape.
91 Kincardine. "introduced."
92 Aber. south. "introduced."
93 north. "introduced."
99 Dunbarton. Clydes. flo.
00 Clyde-isles. Landsborough.

N.B. Finding myself unable to indicate the counties in which this plant is indigenous, if truly indigenous anywhere, I resort to the plan of citing authorities, with the addition of the two signs (* †) to show their greater or less distrust of nativity. I have seen the plant in about a score of counties; its inland localities always near old dwellings. Possibly wild on coast cliffs.

449 Cicuta virosa.

6 Som. north. Clark sp.
20 Herts. Crespigny sp.
25 Suffolk east.
26 west.
27 Norf. east. Paget sp.
28 west. Marshall ms.
29 Cambridge. Extinct?
30 Bedford.
35 Monmouth.
37 Worcester.
36 Hereford. Prior ms.
39 Stafford.
40 Salop. J. E. Bowman sp.
49 Carnarvon? Robinson cat.
53 Lincoln south.
56 Notts. Extinct?
58 Chester. J. L. Warren ms.
59 Lanc. south. Windsor sp.

62 York n. east.
65 n. west.
68 Cheviotland.
72 Dumfries. Gray. Lloyd.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh.
85 Fife. Syme sp. Dewar sp.
88 Perth mid. (F. B. White).
90 Forfar. Stables sp.
99 Dunbarton. Hooker sp.
[8 9 13 to 17 21 24 61 63 64 67 70 92 111; these are on old authority, or insufficient through the plant having been confused with *Oenanthe fluviatilis*, and perhaps also with *O. crocata* and *Phellandrium*.]

450 Apium graveolens.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs sp.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
13 Sussex west! J. L. Warren.
14 east. Hall cat.
15 Kent east!
16 west!
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. R. A. Pryor.*
21 Middlesex.
25 Suff. east. Cooper sp.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
34 Gloster west! Thwaites sp.
35 Monmouth. Watkins sp.
37 Worcester? perhaps wild.
39 Stafford? perhaps wild.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint! J. E. Bowman ms.
52 Anglesea.
53 Linc. south.
54 north! Howitt ms.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Parsons rec.
64 m. west. Parsons rec.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
87 Perth w. Dr. T. Drummond.
01 Cantire. Balfour sp.
04 Eb. north. Lawson cat.
(7 8 20 22 23 26 30 31 33 36 40 55 56 63 64 83 85 87 92 95; all inland localities for this much cultivated littoral plant must be regarded with suspicion, unless certified on the safest authority).

452 Petroselinum segetum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Goulding sp.
4 north?
5 Som. south. Coleman cat.
6 north. Hort sp.

7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Rev. E. H. Fox sp.
10 Wight! Bell Salter sp.
11 Hants south. Bromf. ms.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent east. G. E. Smith cat.
16 west. Farre sp.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Gibson sp.
20 Hertford. Isaac Brown sp.
21 Middlesex. "Warren 1869."
22 Berks.
23 Oxford.
24 Bucks. Hurst ms.
25 Suffolk east. Skepper.
26 west.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
34 Gloster west. Thwaites cat.
36 Hereford.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Bloxam ms.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
54 Lincoln north!
55 Leicester?
56 Notts. Mrs. Russell.
61 York s. east.
63 s. west.
[103 "Dr. Walker."]

453 Trinia vulgaris.

3 Devon s. Woodward sp.
6 Som. north. Crotch sp.
34 Gloster west. Russell sp.
[36 49 70; errors].

454 Helosciadium nodiflorum.

Counties all, except 42 43 47 71 72 74 75 78 79 86 to 98 103 to 112. Too plentiful in England to render the citation of counties and authorities needful. And yet very local in North Britain; being limited apparently to its most southern counties, Fifeshire and South-west Highlands. *Helosciadium repens* is recorded in many counties, from Cornwall to Fife; but usually it is only a small state of *nodiflorum* which is so named. See Comp. Cyb. Brit. page 519.

455 Helosciadium inundatum.

Counties all, except 5 6 33 35 41 42 43 60 71 72 74 78 79 84 86 88 97 99 103 104 105 107 108 110 112; in most of these it may have been overlooked. 106 Gordon cat. 109 Brown cat. 111 H. H. Johnston.

456 Sison Amomum.

2 Corn east. Briggs cat.
3 Devon south. Briggs sp.
4 north!
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Bromfield sp.
11 Hants south. Notcutt cat.

12 Hants north!
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex! Hind cat.
22 Berks! Miss Bell ms.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts!
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. J. E. Bowman ms.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denbigh.
51 Flint. Gordon ms.
52 Anglesea.
53 Linc. south. Bloxam ms.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester! J. L. Warren cat.
61 York s. east.
63 s. w. F. A. Lees cat.
[67] (66 81).

457 Ægopodium Podagraria.

Counties all, except 42 45 47 69 71 74 97 105 106 107 108 110 112. In many of the other counties it is indicated as appearing to be uncertainly indigenous; more especially so in those of North Britain.

459 Carum verticillatum.

2 Cornwall east. W. Wise sp.
3 Devon south?
41 Glamorgan. Moggridge sp.
42 Brecon.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Atwood sp.
49 Carnarvon. Babington sp.
70 Cumberland. Heysham ms.
71 Isle of Man.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Gourlie sp.
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. G. E. Hunt sp.
01 Cantire. Balfour cat.

460 Carum Bulbocastanum.

20 Herts. Fordham sp.
24 Bucks. R. A. Pryor.
29 Cambridge. Coleman sp.
30 Bedford. Coleman ms.
[7 Wilts flo. 21 Flo. brit.]

461 Bunium flexuosum.

Counties all, except 42 45 46 47 53 74 97 98 101 107 110; probably in all of these, unless 110.

462 Pimpinella Saxifraga.

Counties all, except 42 60 71 74 97 98 99 103 to 107 109 to 112.

463 Pimpinella magna.

1 Corn. west. "Oliver," 1869.
2 east. Briggs ms.
3 Devon south. Goulding sp.
7 Wilts north. Prior ms.
8 south.
9 Dorset?
11 Hants south?
12 north.
14 Sussex east. Roper.
15 Kent east! Stevens sp.
16 west. Pamplin ms.
17 Surrey. Wood ms.
18 Essex south.
19 north.
20 Herts. Coleman sp.
21 Middlesex.
23 Oxford.
24 Bucks. Sandys sp.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
28 Norfolk west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Anderson ms.
33 Gloster east. Prentice cat.
34 west.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
53 Linc. south. Bloxam ms.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. Bickham sp.
59 Lanc. south.
61 York s. east.
62 n. east. Leefe sp.sp.
63 s west.
64 m. west. Tatham cat.
65 n. west.
66 Durham.
67 Northumberland.
80 Roxb. Brotherston rec.†
83 Edinburgh.
87 Perth west. Dewar sp. [49 60].

464 Sium latifolium.

3 Devon s. Tate ms. 1871.
5 Som. south. Melvill.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
11 Hants s. More ms. 1868.
13 Sussex west. Borrer cat.
14 east. Dyer.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Wood ms.
18 Essex south.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Fox sp.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east. Paget sp.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton!
33 Gloster east.
37 Worcester.
39 Stafford.
40 Salop? "W. P. Brookes."
49 Carnarvon? Robinson cat.
52 Anglesea.
53 Lincoln s. Fowler & Lees rec.
54 north! Howitt sp.

56 Notts.
61 York s. east.
62 n. east.
63 s. west. F. A. Lees
64 m. west. Parsons rec.
66 Durham. Extinct.
68 Cheviotland.
75 Ayr. Duncan cat.
86 Stirling. Maughan sp.
[2 7 9 20 38 41 55 64 69 70 82; insufficiently vouched].

465 Sium angustifolium.

1 Corn. west. Cunnack cat.
3 Devon south ?
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat. !
11 Hants south. Groves sp.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent. e. ! G. E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman. cat.
21 Middlesex ! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norf. east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east.
34 Gloster west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Ley rec.
45 Pembroke. Purchas ms.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
51 Flint !
52 Anglesea.
53 Linc. south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west ! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland. Baker cat.
72 Dumfries ?
74 Wigton. (McAndrew).
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Syme sp.
83 Edinburgh ! Balfour cat.
85 Fife. Syme sp. 1870.
87 Perth west.
89 east. (F. B. White).
90 Forfar. Kerr to Croall sp.
91 Kincardine. Dickson cat.
93 Aber. north. Roy lre. 1872.
95 Elgin. Gordon cat.
[111 Neill, "common"].

466 Bupleurum tenuissimum.

3 Devon s. Rev. W. Hore.
5 Som. north.
9 Dorset. Rev. H. E. Fox sp.
10 Wight. Miss Twining sp.
11 Hants south. Farre sp.
13 Sussex west. J. L. Warren.
14 east. Hall cat.
15 Kent east. Stevens sp.
18 Essex south.
19 north. Varenne sp.
21 Middlesex.
25 Suffolk east. Bloomfield.
27 Norfolk east. Henslow sp.
28 west. Wardale sp.
29 Cambridge. Babington cat.
31 Hunts ?
34 Gloster west. Thwaites sp.
37 Worcester.
54 Linc. north. Whitelegg sp.
58 Chester. "Miss Grundy."*
60 Lanc. west. Syme sp.
66 Durham.
(17 Surrey, twice seen).

467 Bupleur. aristatum.

3 Devon south. Henslow sp.
14 Sussex e. Bab. man. ed. 5.
N.B. Destroyed on the Flagstaff Hill, but still found at Daddy's Hole, South Devon; Rev. T. F. Ravenshaw, 1871.

468 Bupleur. falcatum.

17 Surrey. Brewer flo.
18 Essex south. Christy sp.
[58 Chester; error.]

469 Bupleur. rotundifolium.

6 Som. north.
7 Wilts north. A. Prior sp.
8 Wilts south. Flower cat.
9 Dorset. Extinct?
10 Wight. Bromfield ms.
11 Hants south. Pamplin ms.
12 north.
13 Sussex west. Borrer cat.†
14 east?
15 Kent. e. G. E. Smith cat.
16 west!
17 Surrey. Salmon sp.
18 Essex south.
19 north.
20 Herts. Fordham sp.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks.
26 Suffolk west.
28 Norfolk west.
29 Cambridge. Fordham sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Buckman sp.
34 west. Thwaites cat.
36 Hereford?
37 Worcester.
38 Warwick. Bree ms.
53 Lincoln south.
55 Leicester. Howitt ms.
56 Notts. One locality.
61 York s. east.
62 n. east.
63 s. west.
64 m. west?
65 n. west. Ward sp.
66 Durham. Norman cat.†
(1 49 59 80; and scarcely better than a casual in some other counties?) [25.]

470 Oenanthe fistulosa.

1 Corn. west. Cunnack cat.
3 Devon south.
4 north.

5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east. Roper.
15 Kent east! G. E. Smith cat.
16 west.
17 Surrey! Barham sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley flo.
24 Bucks. Britten cat.
25 Suff. east. Bloomf. cat.
26 west. Bab. ms.
27 Norfolk east. Cooper sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint!
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland.
"Lake district unrecorded."
72 Dumfries.
73 Kirkcudbright. Lloyd ms.
75 Ayr.
81 Berwick.
[76 85 90 99; not verified of late, and perhaps *Lachenalii* was the species intended in those counties].

471 Oenanthe pimpinelloides.

1 Corn. west. Ralfs sp.
3 Devon south. Goulding sp.
5 Som. south. Coleman cat.
6 north. Newb. 1852.
8 Wilts south. Rogers sp.
9 Dorset. Mrs. Wyndham sp.
10 Wight! Bromfield sp.
11 Hants south. Notcutt ms.
13 Sussex west. Gibson sp.
14 east. Hall cat.
19 Essex north. Varenne sp.
33 Gloster east. Buckman sp.
34 west. E. Lees sp.
37 Worcester. E. Lees sp.
N.B. By name this is recorded for many other counties, but the species really intended was *Lachenalii*.

471 Oenanthe Lachenalii.

1 Corn. west! Cunnack.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw sp.
5 Som. south. Coleman cat.
6 north! Christy sp.
7 Wilts north. Flower cat.
9 Dorset. Bromfield sp.
10 Wight!
11 Hants south. Notcutt cat.
13 Sussex west! Borrer cat.
14 east. Mill sp.
15 Kent east! Buckland sp.
16 west. Ar. Bennett.
17 Surrey. Ar. Bennett sp.
18 Essex south. Crespigny.
19 north. Varenne ms.
20 Herts. Fordham sp.
21 Middlesex!
23 Oxford. R. A. Pryor.
25 Suff. east. Stock cat.
26 west. Babington ms.
27 Norf. east. Fitt sp.
28 west. Bell sp.
29 Cambridge. Gibson sp.
31 Hunts. Newbould cat.
34 Gloster west. Thwaites sp.
36 Hereford. Purchas sp.
37 Worcester. E. Lees sp.
41 Glamorgan. Lees sp.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones.
48 Merioneth. (Reeves).
49 Carnarv. J. E. Bowman sp.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. J. E. Bowman sp.
53 Linc. s. Fowler & Lees rec.
54 north!
55 Leicester. Bloxam sp.
56 Notts. Mitchell sp.
58 Chester! J. L. Warren cat.
59 Lanc. south. Tudor ms.
60 west! Rylands sp.
61 York s. east. Syme sp.
62 n. east.
63 York s. west. O. Moore sp.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland. Foggitt.
70 Cumberland. Heysham sp.
71 Man. Forbes cat.
72 Dumfries.
73 Kirkcudbright.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
82 Haddington. Balfour sp.
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.
03 mid?—[22].

N.B. Old records for so-called "*pimpinelloides*" have been taken as truly intending the species now understood to be *Lachenalii*.

472 Oenanthe silaifolia.

9 Dorset. Pleydell sp.
13 Sussex w. "Winch herb."
14 e. Borrer cat. co.
15 Kent east. Syme sp.
17 Surrey. Mill sp. Salmon sp.
22 Berks. Newbould.
23 Oxford. Dyer.
24 Bucks.
26 Suffolk west.
27 Norfolk east?
28 west?
29 Cambridge. Lemann sp.
30 Bedford. Sm. Herb.
31 Hunts. Newbould ms.
33 Gloster east. E. Lees sp.
36 Hereford. Purchas sp.
37 Worcester. E. Lees sp.
38 Warwick. Bree ms.

55 Leicester. Bloxam sp.
56 Notts.
N.B. In several other counties, from Devon to Northumberland, on faith of records or manuscript reports; but this species having been much confused with *Lachenalii* and even *fistulosa*, a selection only of the least unlikely or best certified counties is made above.

473 Oenanthe crocata.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
20 Herts.
21 Middlesex.
22 Berks! Miss Bell sp.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
27 Norfolk east.
34 Gloster w. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shaw sp.
37 Worcester. E. Lees sp.
38 Warwick. Bagnall.
39 Stafford.
40 Salop. Dr. Lloyd sp.
41 Glamorgan.
42 Brecon. MissD.Farquhar sp.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon!
50 Denbigh! J.E.Bowman cat.
52 Anglesea.
53 Lincoln south!
54 north!
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Bailey rec.
62 York n. east.
63 s. west.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Baker sp.
67 Northum. R.B.Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. James Macnab ms.
72 Dumfries. Gray cat.
73 Kirkcudbright. Syme sp.
74 Wigton. (McAndrew).
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling. Croall rec.
87 Perth west!
88 mid. (F. B. White).
89 east! Syme sp.
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.

95 Elgin. Gordon cat.
98 Argyle.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Stables sp.
04 north. Lawson cat.
05 Ross west. (Druce).

474 Oen. Phellandrium.

3 Devon south?
5 Som. south. Collins ms.
6 north. Collins ms.
9 Dorset. Pleydell cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper
27 Norf. east. Paget sp.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton! Anderson ms.
33 Gloster.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Howitt sp.
56 Notts.
57 Derby. Bloxam ms.
58 Chester. Bickham sp.
59 Lanc. s. F. M. Webb cat.
60 Lanc. west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Lees cat.
65 n. west. Leefe sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
69 Westmoreland. Melvill.
70 Cumberland? "Winch."
81 Berwick.
82 Haddington.
83 Edinburgh. Maughan sp.
[97 99; misnomers?]

474 Oenanthe fluviatilis.

6 Som. north. Withers sp.
7 Wilts north. Flower ms.
8 south. Carey.
9 Dorset. Pleydell cat.
11 Hants south. Borrer ms.
12 north. Bromf. ms.
15 Kent east. "Borrer."
17 Surrey!
18 Essex south. Varenne ms.
19 north. Bentall sp.
20 Herts.
21 Middlesex! Godley sp.
22 Berks. Boswell Syme sp.
23 Oxford. Rev. H. E. Fox. sp.
24 Bucks.
25 Suffolk east. Coleman sp.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton!
34 Gloster west. Purchas ms.
38 Warwick. Bromwich sp.

55 Leicester. Bloxam cat.

475 Æthusa Cynapium.

Counties all, except 42 48 71 73 74 78 84 88 89 96 to 99 101 to 110 (111) 112. Common in England. Rare in North Britain; and regarded as an introduced weed there by Professor Dickie and the Rev. Dr. Gordon.

476 Fœniculum vulgare.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.†
3 Devon south! Briggs cat.†
4 north! Maw cat.
5 Som. north. Coleman cat.
6 north. Collins ms.
9 Dorset. Pleydell cat.†
10 Wight. More cat.* Bromf.†
11 Hants south. Bromfield.†
14 Sussex east. Borrer ms.†
15 Kent e.! G. E. Smith cat.
18 Essex s. "indigenous."
19 north. Gibson flo.
25 Suff. east. Miss Bell ms.
27 Norf. east. Trimmer flo.
28 west. Trimmer flo.
34 Gloster w.! Thwaites cat.
35 Monmouth. Conway cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merion. J. E. Bowman ms.
49 Carnarv. J. E. Bowman ms.
51 Flint. Robinson cat.*
52 Anglesea. Welsh Bot.
54 Linc. north. Bogg cat.†
58 Chester. Liverpool flo.*
59 Lanc. s. F. M. Webb cat.*
62 York n. east. Baker cat.*
66 Durham. "ballast hills."
67 Northumb. "ballast hills."
71 Man. Forbes cat.†
83 Edinburgh. Balf flo.*
[90 Forfar. Don in G. flo.]

N.B. Rejecting at once the many inland counties, in which this much cultivated herb has been reported, it is here traced along the coast counties only, with the two signs († *) to show the opinions on its nativity or other such indications afforded by the authorities quoted.

477 Seseli, or Athamanta Libanotis.

14 Sussex east. Coleman sp.
20 Herts. Fordham sp.
29 Cambridge. Bromfield sp.
[24 Bucks; Huds.]

478 Ligusticum scoticum.

68 Cheviot. Embleton sp.
75 Ayr. Veronge sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife!
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
93 Aber. north. Dickie flo.
94 Banff. Stables sp.
95 Elgin. Gordon cat.
97 Westerness. Ch. Bab. sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ch. Bab. ms.
04 north. Lawson cat.
09 Caithness. Gordon ms.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate sp.

479 Silaus pratensis.

3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Bromfield sp.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Harris sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ch. Bab. ms.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 Linc. north! Bogg cat.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland. Baker cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Lloyd sp.
85 Fife.

483 Meum athamanticum.

48 Merioneth. Price sp.
59 Lanc. south.
63 York s. west. Leyland sp.
64 m. west. Error?
65 n. west. Pinder ms.
67 Northumb. Makepeace sp.
69 Westmoreland! Pinder ms.
70 Cumberland. Baker cat.
72 Dumfries.
73 Kirkcudbright. Gordon ms.
75 Ayr. Duncan cat.
76 Renfrew. Balfour sp.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston.
83 Edinburgh.
84 Linlithgow.
85 Fife. Syme.
86 Stirling. Croall rec.
87 Perth west. Syme sp.
88 mid.
89 east!
90 Forfar!
91 Kincardine.

92 Aber. south ! Dickie cat.
96 Easterness.
99 Dunbarton.
[3 Devon ; " Bartlett "].

481 Crithmum maritimum.

1 Corn. west ! Cunnack cat.
2 east. Pascoe sp.
3 Devon south ! Briggs cat.
4 north. Maw ms.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south.
13 Sussex w. Borrer cat. co.
14 east. Hall cat.
15 Kent e. ! G. E. Smith cat.
41 Glamorgan. Hardy sp.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan.
48 Merioneth.
49 Carnarvon.
52 Anglesea. J. E. Bowman ms.
69 Westmorld. Gibson ms.
70 Cumberland.
71 Man. J. Macnab ms.
73 Kirkcudbright. Syme sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
[27 59 83 or 85 ; extinct or erroneously recorded ; the name of ' samphire ' is occasionally given to the *Salicornia*].

482 Angelica sylvestris.

Counties all, except 42 71 74 107 ; but doubtless it does occur in every county.

483 Peucedanum officinale.

15 Kent east. Cowell sp.
19 Essex n. Greenwood sp.
[13 27 56 ; errors arising from the *Oenanthe Lachenalii* being thus misnamed ?]

484 Peucedanum palustre.

6 Som. north. Clark sp.
18 Essex south ? " J. Ray."
25 Suff. east. Paget sp.
26 west. Bunbury sp.
27 Norfolk east. Winter sp.
28 west. Bray rec.
29 Cambridge. J. Ray sp.
31 Hunts. Newbould cat.
53 Linc. south.
54 north. Fowler rec.
56 Notts ? One locality.
63 York s. w. O. A. Moore sp.
[36 59 61 69 76 83].

484*Selinum caruifolia.

54 Lincoln north. (Fowler).

486 Pastinaca sativa.

1 Corn. west. Cunnack cat.†
2 east. Briggs cat.†
3 Devon south ! Briggs cat.
4 north. Maw cat,
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex w. ! J. L. Warren cat.
14 east ! Borrer cat. co.
15 Kent e. ! G. E. Smith cat.
16 west !
17 Surrey !
18 Essex south.

19 Essex north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Bab. ms.
27 Norfolk east. Babington.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan. Barnard ms.†
44 Carmarthen.
45 Pembroke.
49 Carnarvon. Robinson cat.*
51 Flint. Robinson cat.*
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam sp.
56 Notts. Howitt sp.
58 Chester. J. L. Warren flo.
59 Lanc. s. F. M. Webb cat.
60 west. Syme sp.
62 York n. east. Baker cat.†
63 s. w. F. A. Lees cat.†
64 m. west. "native."
65 n. west. "native."
66 Durham. "prob. indigen."
(54 62 67 68 75 100; dubiously indigenous also in Wales, Cornwall, and elsewhere).

487 Heracleum Sphondylium.

Counties all, except 74 98.

488 Tordylium maximum.

18 Essex south. Crespigny sp.
21 Middlesex. Castle sp.
23 Oxford. Extinct everywhere?
24 Bucks. Britten cat. "v. s."
[22 33 Buckman, B. G. C.].

489 Daucus Carota.

Counties all, except 74 78 86 87 94 97 99 105 107 (111); and marked as uncertainly native in the catalogues for Elgin, Nairn, and Caithness. Abundant in Shetland, according to Edmonston's Flora.

490 Daucus maritimus.
(*D. gummifer.*)

1 Corn. west! Curnow sp.
2 east. Banker sp.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. north. Collins ms.
9 Dorset. "variety of D. C."
10 Wight? Bromfield ms.
11 Hants s. Townsend cat.
13 Sussex w. J. L. Warren rec.
14 east. Bromfield.
15 Kent e. G. E. Smith cat.
41 Glamorgan. Dillwyn.
44 Carmarthen. Jones rec.
52 Anglesea. J. E. Bowman ms.
61 York s. east. Parsons rec.
74 Wigton (McAndrew).
[58 59 66 (80) 98 104; certain in the Peninsula, scarcely so elsewhere; but Withering's plant appears to be simply a maritime form of *Carota*.]

491 Caucalis daucoides.

6 Som. north. Withers ms,
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
12 Hants north.
16 Kent west. Bossy sp.
17 Surrey. Brewer sp.
18 Essex south.
19 north.
20 Herts. Fordham sp.
22 Berks.
23 Oxford.
25 Suffolk east?
26 west.
28 Norfolk west. "rare."
29 Cambridge. Coleman sp.
30 Bedford. Isaac Brown sp.
32 Northton. Berkeley ms.
33 Gloster east. Dyer.
37 Worcester. (E. Lees).
38 Warwick. Bagnall.
53 Linc. south. Bloxam sp.
62 York n. east. "colonist."
63 s. west.
64 m. w. Hebblethwaite.
65 n. west. "colonist."
66 Durham. Norman cat.

492 Caucalis latifolia.

5 Som. south. Quekett sp.
6 north. Collins ms.
20 Herts. Single locality.
29 Camb. "Lemann 1833."
30 Bedford. Two localities.
34 Gloster. Flower sp.† 1870.
44 Carmarthen. Three spns. (11 19 39 or 57, casual and extinct, if not erroneous). Scarcely better than a casual in any county.

493 Torilis Anthriscus.

Counties all, except 71 97 106 to 108 111 112.

494 Torilis infesta.

2 Corn. east. Hart Smith sp.
3 Devon south.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith cat.
16 west.
17 Surrey! Luxford sp.
18 Essex south.
19 north. Christy sp.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. ms.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington sp.
30 Bedford. Hillhouse.
31 Hunts! Newbould cat.
32 Northampton. Britten.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Tyler sp.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.

49 Carnarvn. J.E.Bowman ms.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south ! Bloxam ms.
54 north !
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south. Tudor ms.
62 York n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west. Baker sp.
[75 83 98 ; possibly seen as casuals in these three counties ; more likely erroneous].

495 Torilis nodosa.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex w. ! Borrer cat. co.
14 east ! Hall cat.
15 Kent e. ! G. E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks !
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. ms.
27 Norfolk east. Babington.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
36 Hereford. Purchas ms.
37 Worcester. Bagnall ms.
38 Warwick. Bree ms.
39 Stafford.
40 Salop.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denbigh. J.E.Bowman cat.
51 Flint. (H. L. Jones rec.)
52 Anglesea.
53 Linc. south ! Bloxam ms.
54 north ! Bogg cat.
55 Leicester. Howitt sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton cat.
70 Cumberland.
71 Man. Forbes cat.
74 Wigton. (McAndrew).
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Brand sp.
85 Fife. Boswell Syme sp.
90 Forfar. " Mr. Croall."
94 Banff. " Mr. Bissett ! "

496 Scandix Pecten Veneris.

Counties all, except 47 48 60 69 71 72 73 74 78 79 87 88 97 to 105 107 108 110 (111) 112. Introduced in Moray; Coll. Mor.

497 Anthriscus vulgaris.

(*Chærophyllum Anthriscus.*)

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs sp.†
4 north!
5 Som. south. Coleman cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
13 Sussex west! Borrer cat.†
14 east. Bor. cat. co.
15 Kent e. G. E. Smith cat.
16 west. Holman sp.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Wardale sp.
29 Cambridge. Harris sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cut.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
37 Worcester. F. A. Lees rec.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
49 Carnarvon. (Reeves).
50 Denbigh! J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam ms.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east. West. rec.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton sp.
70 Cumberland?
75 Ayr. Duncan cat.†
77 Lanark. "Very rare"; C. flo.
80 Roxburgh. Brotherston rec.†
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme sp.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
89 east. (F. B. White).
90 Forfar. "frequent."
91 Kinc. Mrs. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
07 Suth. east! Introduced?
[112 "abundant"; Ed. flo.]

498 Anthriscus sylvestris.

(*Chærophyllum sylvestre.*)

Counties all, except 35 42 46 71 72 73 74 80 97 103 105 106; doubtless to be found in all.

500 Chærophyllum temulentum.

Counties all, except 42 46 74 96 97 101 to 105 107 108 110 111 112. 106 Gordon, Ross cat. 109 Caithness, Brown Campst. cat.

501 Myrrhis odorata.

35 Monmouth. Conway cat.
36 Hereford. Purchas flo.
37 Worcester. Ballard.
38 Warwick. Bree ms.
39 Stafford. James Carter.
40 Salop. Bidwell sp.
41 Glamorgan. Dyke sp.
42 Brecon. Ley cat.
46 Cardigan. Eng. Flora.
48 Merioneth. "John Jones."
49 Carnarvon. Robinson cat.†
50 Denbigh. J. E. Bowman ms.
51 Flint. Griffith in B. G.
52 Anglesea. Welch Bot.
54 Lincoln n. Fowler rec.*
55 Leicester. Coleman list.*
56 Notts. Howitt flo. 1 loc.
57 Derby! Howitt cat.
58 Chester. J. L. Warren flo.
59 Lanc. s. F. M. Webb cat.†
61 York s. east. Authority?
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland.† D. Turner.
70 Cumberland! Baker.†
71 Man. Forbes cat. "scarce."
72 Dumfries. Dr. Burgess.†
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.*
80 Roxburgh. Border flo.
81 Berwick. Border flo.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Balf. flo. Syme sp.†
86 Stirling. Duthie cat.
87 Perth west.
88 mid.*
89 east.*
90 Forfar. Gardiner flo.
91 Kinc. Mrs. Dickson cat.
92 Aber. south. Dickie cat.*
94 Banff. Dickie Guide.*
95 Elgin. Gordon cat.*
96 Easterness. Stables cat.*
99 Dunbarton. Glot. flo.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
05 Ross east. Gordon cat.
09 Caith. Brown Campst. cat.
10 Hebrides. Balf. Bab. cat.

N.B. Finding it impossible clearly to distinguish the counties in which this plant should be deemed truly indigenous, from those in which it occurs under more doubtful conditions, recourse is again made to the plan of enumerating all the recorded counties shewn by my notes; those of the first four provinces excepted. The two signs of doubted nativity († *) are used to indicate more or less suspicion against nativity, on the part of the authorities so quoted. Mr.

Baker, in the 'Botany of 'North Yorkshire' and in the 'New Flora of Northumberland and Durham' gives the plant positively as a "native" in those counties. Balfour and Sadler, in the 'Flora of Edinburgh,' treat it as an unquestioned native of the Forth counties. In the 'Clydesdale Flora' Professor Hennedy indirectly suggests some apparent suspicion to the contrary, by the word "near villages" and "formerly cultivated;" two remarks suggestive of some uncertainty.

503 Viscum album.

3 Devon south. Planted?
5 Som. south. Collins ms.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Towns. cat.
12 north.
13 Sussex w. J.L. Warren cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. Winch ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Cooper sp.
27 Norfolk east.
28 w. Woodward ms
29 Cambridge.
30 Bedford. Hillhouse cat.
32 Northton. Berkeley ms.
33 Gloster east.
34 west. Christy sp.
35 Monmouth. Ch. Bab. ms.
36 Hereford. G. Macnab sp.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford. Ch. Bab. ms.
40 Salop. Leighton cat.
50 Denbigh. J.E. Bowman sp.
55 Leicester.
56 Notts. "frequent."
57 Derby. Howitt sp.
58 Chester. J. L. Warren flo.?
64 York m. west.
(1 2 8 10 [52] 59 61 62 63 66 67 68 89 90).

504 Sambucus nigra.

Counties all, except 74 84 89 97 98 99 (106) 107 108 (109) 110 (111) 112. Catalogued as if indigenous in the West Highlands, by Professors Lawson, Balfour, and Hennedy. In the East Highlands it is noted only as an introduced shrub by Dr. Boswell Syme, Prof. Dickie, and the Rev. Dr. Gordon.

505 Sambucus Ebulus.

1 Cornwall west. Ralfs.†
3 Devon south. Briggs sp.†
6 Som. north.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south. Towns. cat.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
15 Kent east. Stevens sp.

16 Kent west.
17 Surrey. Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. "common."
31 Hunts.
32 Northton. Berkeley ms.
33 Gloster east. Roberts ms.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Briggs.†
38 Warwick. Bagnall ms.!
39 Stafford! Ch. Bab. ms.†
40 Salop.
41 Glamorgan.
45 Pembroke. Babington cat.
48 Merioneth. Pamplin ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
52 Anglesea. Robinson cat.
55 Leicester. Bloxam ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. e. "indigenous."
63 s. w. Leyland ms.†
64 m. w. F. A. Lees cat.
65 n. w. "indigenous."
66 Durham. R.B. Bowman sp.
67 Northumb. "denizen."
68 Cheviotland. "denizen."
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. Lloyd ms.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
80 Roxburgh.
81 Berwick. Border flo.
83 Edinburgh. Balfour cat.*
85 Fife. Lloyd sp. Ed. flo.
88 Perth mid. Miller cat.
89 east.
90 Forfar.
91 Kincardine. Syme cat.†
92 Aber. south. Dickie cat.
93 north. Dickie Guide.
94 Banff. Dickie Guide.
09 Caithness. Nicolson.†
(95 96 106 Gordon.*) [1]. I have not seen this even quasi-wild except in one spot in Fife; and there I supposed it an introduced plant originally. Held native by many botanists.

506 Viburnum Opulus.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G.E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.

22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Jones cat.
47 Montgomery. Ley cat.
49 Carnarvon! Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.†
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Ed. flo.†
83 Edinburgh. Balfour cat.†
85 Fife. Syme cat.† Ed. flo.†
87 Perth west. Edinb. flo.†
88 mid! Miller cat.
89 east. (F. B. White).
90 Forfar. "probably planted."
91 Kincardine.
92 Aber. south. "reported."
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
99 Dunbarton. Hooker sp.
02 Eb. south. Balfour cat.†
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west. Stables.
06 east. Gordon cat.
07 Sutherland east. Stables.
09 Caithness. Nicolson cat.

N.B. Frequent in England. Rare in North Britain, if not so throughout Scotland; and usually reported as uncertainly indigenous there.

507 Viburnum Lantana.

1 Corn. west?
2 east?
3 Devon south. Briggs ms.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Towns. cat.

12 Hants north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west !
17 Surrey ! Salmon sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Miss Bell ms.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suffolk west. Bell sp.
27 Norfolk east.
28 west.
29 Cambridge. Leefe sp.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. F. A. Lees rec.†
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Bloxam ms.†
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
55 Leicester.
56 Notts. "rare."
62 York n. east. Baker.
63 s. west.
(64 66 67 68 75 76 77 81 83 90. Dunglass Glen.) [25].

508 Lonicera Periclymenum.

Counties all, except 41 42 74 98 107.

511 Linnæa borealis.

62 York n. east.
67 Northumb. Introduced ?
81 Berwick.
83 Edinburgh. Graham sp.
88 Perth mid !
89 east ?
90 Forfar !
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness. "Lord Cawdor."
06 Ross east. Gordon cat.

512 Rubia peregrina.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Groves sp.
13 Sussex west ! Borrer ms.
14 east.
15 Kent e. G. E. Smith cat.
34 Gloster west ! Thwaites sp.
35 Monmouth. Stables sp.
36 Hereford. Purchas cat.
41 Glamorgan.
44 Carmarthen.
45 Pembroke. Stables sp.
46 Cardigan.
48 Merioneth.
49 Carnarvon ! Bidwell sp.
50 Denbigh. F. M. Webb.
52 Anglesea ! Robinson cat.
[22 29 70 102].

513 Galium verum.

Counties all, except 42 47 74 98 105; doubtless occurs in every county. *G. ochroleucum*, a hybrid between

this and *G. Mollugo*, is reported from 2 3 10 13 14 and 58.

514 Galium cruciatum.

Counties all, except 2 42 46 52 74 96 to 98 101 102 104 to 109 111 112. Very dubious from 93 to 95. Mr. Roy found *Asperula taurina* in the Banffshire locality (94) reported for this plant, and there as an escape from the Manse garden. Balfour and Babington's record for the Hebrides has been lately confirmed by Mr. Ross.

515 Galium palustre.

Counties all, except 74; doubtless to be found in all. *Galium elongatum* reported in 1 3 10 15 17 18 19 21 22 29 30 38 56 58 59 62 66 67 68. *G. Witheringii* reported in forty counties.

516 Galium uliginosum.

1 Corn. west. Cunnack cat.
2 east?
3 Devon south.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north! Towns. cat
13 Sussex west. Borrer cat.
14 east.
15 Kent. e.! G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. A. Fryer sp.
32 Northton. Notcutt cat.
33 Gloster east.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones.
45 Pembroke?
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. n. Lees & Fowler rec.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Makepeace sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland. Baker cat,
75 Ayr.

76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Lloyd sp.
85 Fife. Syme cat.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid. Worsley cat.
89 east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 Caith. Brown Campst. cat.

N.B. Perhaps this is occasionally confused with *G. palustre*. Edmonston gives it as "frequent" in Shetland, and it is given also in Lowe's list for Orkney; these habitats need to be verified by safer botanists. I have not seen specimens from North Britain; but the species is amply certified there.

517 Galium saxatile.

Counties all, except 31. Possibly this may be a true exception.

518 Galium erectum.

9 Dorset. Mansel-Pleydell sp.
11 Hants south. Towns. ms.†
12 Hants north. Towns. cat.
13 Sussex west. Christy sp.
14 east. Coleman cat.
15 Kent east. Trevelyan sp.
17 Surrey. Brewer sp.
18 Essex south.
19 north. Neville sp.
20 Herts. Blow rec.
23 Oxford.
24 Bucks. A. Bennett ms.
27 Norfolk east.
29 Cambridge. Babington cat.
30 Bedford. D. Turner ms.
37 Worcester. (E. Lees).
38 Warwick. Kirk sp.
40 Salop.†
56 Notts. Mrs. Russell ms.
57 Derby. Howitt cat.
92 York n. east. Baker sp.

[2 3 6 7 8 10 28 32 34 37 39 55 61 64 81 83 90 106; insufficiently vouched]. Some of those counties possibly correct; but it is a difficult species, and one not clearly understood by myself.

519 Galium Mollugo.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west!

17 Surrey !
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford !
40 Salop.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
53 Lincoln south !
54 north !
55 Leicester. Coleman ms.
56 Notts.
57 Derby. Bickham sp.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham.
67 Northum. R.B. Bowman cat.
68 Cheviotland.
69 Westmoreland !
70 Cumberland ! Baker cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour sp.
83 Edinburgh. Balfour cat.
84 Linlithgow.
87 Perth west !
88 mid. (F. B. White).
89 east !
(90 91 92 94 95, as a distrusted native).

520 Galium sylvestre.

6 Som. north. Hort sp.
9 Dorset. Pleydell sp. 1868.
34 Gloster west. Borrer ms.
35 Monmouth. Conway cat.
39 Stafford.
57 Derby ! Purchas sp.
64 York m. west. Baker sp.
65 n. west. Ward sp.
66 Durham. "Foggitt sp."
68 Cheviotland.
69 Westmoreland ! Oliver sp.
70 Cumberland.
78 Peebles. "Blackie."
80 Roxburgh.
83 Edinburgh. Maughan sp.
86 Stirling. Duthie cat.
87 Perth west ! Syme sp.
88 mid. Miller cat.
89 east. (F. B. White).
90 Forfar !
11 Orkney. Syme ms.
[1 or 2 30 37 50 59; counties insufficiently vouched].

521 Galium anglicum.

6 Som. north ?
14 Sussex east ?
15 Kent e. G. E. Smith cat.
16 west. Pamplin.
19 Essex north. Varenne ms.
20 Herts. Blow ms. Webb supp.

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26 Suffolk west. Babington sp.
27 Norfolk east.
28 west. Gibson sp.
29 Cambridge. Babington cat. [21 25 33 38 39 44 58 61 80; records insufficiently vouched].

522 Galium tricorne.

5or6 Som. Collins ms. Poole ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ?
12 north.
13 Sussex west. Borrer cat.
14 east ! Hall cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
22 Berks.
23 Oxford.
24 Bucks. Britten.
25 Suffolk east.
26 west. Bab. ms.
27 Norfolk east. Ar. Bennett.†
28 west.
29 Cambridge. Babington cat.
30 Bedford. Isaac Brown sp.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east.
34 west. Thwaites sp.
37 Worcester. E. Lees sp.
38 Warwick. Bagnall.
41 Glamorgan ?
54 Lincoln north ! Fowler.
55 Leicester.
56 Notts. Mrs. Russell.
61 York s. east.
62 n. east. Baker sp.
63 York s. west.
64 m. west. Baker sp.
65 n. west.
66 Durham. Storey sp.
68 Cheviotland. New flo. (2 3 59). [67 70; errors?].

523 Galium Aparine.

Counties all, except 74. Possibly a colonist only in some of the more northern counties.

524 Galium Vaillantii.

18 Essex north. Gibson sp. [29 34 misreported. *G. spurium* in 30 62 65 70 90, by misnomers.] (17 37 83).

525 Galium boreale.

42 Brecon.
49 Carnarvon J. E. Bowman ms.
62 York n. east. Foggitt.
63 s. west.
64 m. w. R. B. Bowman sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Makepeace sp.
68 Cheviotland.
69 Westmoreland ! Beevor sp.
70 Cumberland ! Baker cat.
72 Dumfries. Gray cat.
75 Ayr. Boswell Syme sp.
76 Renfrew. Montgomery ms.
77 Lanark. Gourlie sp.
80 Roxburgh.
81 Berwick.
85 Fife.
87 Perth west. Syme sp.
88 mid ! Worsley ms.
89 east ! Syme sp.
90 Forfar !

91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness!
97 Westerness!
98 Argyle!
99 Dunbarton.
00 Clyde-isles. Balfour sp.
03 Eb. mid. Ch. Bab. sp.
04 north. Lawson cat.
05 Ross west. "G. C. Smith."
06 east. Gordon cat.
08 Suth. west. Ch. Bab. ms.
09 Caith. Brown Campst. cat.
11 Orkney? Lowe's list.
12 Shetland? Edmon. flo.
(36 Hereford; Purchas flo.*)

526 Sherardia arvensis.

Counties all, except 42 74 97 98 104 105 107 108 110 111 112.

527 Asperula odorata.

Counties all, except 13 31 42 46 48 71 72 74 78 97 98 108 110 111. A single locality in the Flora of Shetland. Marked in Dr. Brown's list for Caithness. Noted as seen by myself in Sutherland, in 1832, but the exact locality is now forgotten.

528 Asperula cynanchica.

1 or 2 Cornwall?
3 Devon south.
6 Som. north. Thwaites sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Hall cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! Ellis ms.
20 Herts. Isaac Brown sp.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
26 Suffolk west. Bunbury sp.
28 Norfolk west. Gibson ms.
29 Cambridge. Babington cat.
30 Bedford. S. Foster sp.
32 Northton. Druce.
33 Gloster east. Christy sp.
34 west.
37 Worcester. (E. Lees).
41 Glamorg. J. E. Bowman ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
50 Denbigh. Stratton ms.
55 Leicester?
60 Lanc. west. Simpson sp.
61 York s. east.
63 s. w. F. A. Lees cat.
64 m. west. Wesley.
69 Westm. Martindale ms.

531 Valeriana dioica.

Cornwall. Pascoe ms.
3 Devon south.
5 Som. south. F. A. Lees rec.
6 north! Thwaites cat.
7 Wilts north. Flower ms.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Bromfield ms.
11 Hants south. Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.

15 Kent e.! G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Isaac Brown sp.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Bab. cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Jones rec.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. Goodlad herb.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Miss Pringle sp.
69 Westmoreland!
70 Cumberland! Baker ms.
75 Ayr. Duncan cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Macnab sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. G. Lawson cat.
[2 77 99; insufficiently vouched].

532 Valeriana officinalis.

Counties all, except 42 74 108 112. This may be taken to represent the common form or *sambucifolia*. The other form, the *Mikanii* of English Botany, edition third, is very sparingly on record hitherto.

532*Valeriana Mikanii.

6 Som. north. Druce rec.
11 Hants south. R. A. Pryor.
12 north. R. A. Pryor.
17 Surrey.
20 Herts. R. A. Pryor.
22 Berks. (Druce rec.)
23 Oxford. (Druce rec.)
31 Hunts. A. Pryor.
54 Linc. n. F. A. Lees rec.
11 Orkney. Syme.

534 Valerianella olitoria.

Counties all, except 31 42 43 47 48 53 73 74 79 95 97 98 101 103 to 105 107 (108) 110.

535 Valerianella carinata.

1 Corn. west. Curnow.
2 east. Briggs sp.
3 Devon south. Briggs sp.
17 Surrey. Ar. Bennett.
35 Monmouth. Ley rec.
39 Stafford. Ley.
57 Derby. Ley.

536 Valerianella Auricula.

1 Corn. w. Miss Warren sp.
2 east. Briggs cat.
3 Devon south. Borrer ms.
5 Som. south. Collins ms.
6 north. Collins ms.
9 Dorset. Gibson ms.
10 Wight. More sp.
11 Hants south.
12 north. Towns. cat.
14 Sussex east. Bromf. ms.
15 Kent east.
17 Surrey!
18 Essex south.
19 north.
20 Herts.
29 Cambridge. Babington cat.
33 Gloster east.
34 west
35 Monmouth.
36 Hereford.
37 Worcester. (E. Lees).
41 Glamorgan.
44 Carmarthen. Motley cat.
62 York n. east. Foggitt sp.
63 s. w. "G. E. Smith."
85 Fife. Macauley sp.

537 Valerianella dentata.

1 Corn. west!
2 east. Pascoe cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Macreight sp.
13 Sussex west. Borrer cat.
14 east! Trevelyan sp.
15 Kent. e. G. E. Smith cat.
16 west!
17 Surrey! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell ms.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Notcutt sp.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
47 Montgomery. Melvill cat.
49 Carnarvon!
50 Denbigh! J. E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. south! Bloxam ms.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Bloxam sp.

58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. R. B. Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Oliver sp.
70 Cumberland.
74 Wigton.
75 Ayr. Duncan cat.
77 Lanark ? Patrick flo.
80 Roxburgh. Duncan cat.
81 Berwick. Brotherston rec.
82 Haddington. G. Macnab sp.
83 Edinburgh.
85 Fife ! Boswell Syme sp.
87 Perth west. Syme ms.
89 east. (F. B. White.)
90 Forfar. Carnegie sp.
95 Elgin. Gordon cat.†
00 Clyde-isles. Galt ms.

538 Valerianella eriocarpa.

1 Corn. west. Curnow.
2 east. Briggs sp.
9 Dorset. Mansell sp.
37 Worcester. (E. Lees.)
45 Pembroke. (Newbould.)

539 Dipsacus sylvestris.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north. Towns. cat.
13 Sussex west ! Borrer cat.
14 east. Coleman cat.
15 Kent east ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. H. L. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. R. B. Bowman cat.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south ! Bloxam ms.
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.

62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Leefe sp.
66 Durham. Storey sp.
67 Northumb. "native."
68 Cheviot. Embleton cat.†
69 Westmoreland.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark ?
83 Edinburgh.
85 Fife ! G. Macnab sp.
89 Perth west. (F. B. White.)
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
(81 86 87 90 95; recorded as an introduced plant in these counties; perhaps it should be held the same in some of the other counties of Scotland).

540 Dipsacus pilosus.

3 Devon south. Rogers.
5 Som. south. Poole ms.
6 north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell, "certain."
11 Hants south.
12 north. Pamplin ms.
13 Sussex west. Trevelyan sp.
15 Kent east. Stevens sp.
16 west.
17 Surrey ! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bromf. ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Fordham sp.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice ms.
34 west. Thwaites sp.
35 Monmouth. Poole ms.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
47 Montgomery.
49 Carnarvon. Robinson cat.
50 Denbigh. Stratton ms.
51 Flint ? Robinson cat.
53 Lincoln south. Fowler rec.
54 n. F. A. Lees rec.
55 Leicester.
56 Notts.
57 Derby ! Church. Bab. ms.
58 Chester.
59 Lanc. south.
61 York s. east.
63 s. west.
64 m. west.
65 n. west. Leefe sp.
(66 83 85).

541 Scabiosa succisa.

Counties all, except 42 74 104.

542 Scabiosa columbaria.

1 Corn. west. Cunnack cat.
3 Devon south.
4 north.
5 Som. s. F. A. Lees rec.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.

11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Hall cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex ?
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northampton. Britten.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Melvill cat.
49 Carnarvon. Robinson cat.
50 Denbigh! J.E.Bowman sp.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south! Bloxam ms.
54 north! Bogg cat.
55 Leicester. Coleman ms.
56 Notts.
57 Derby! Howitt cat.
59 Lanc. s. Chadwicke sp.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 York s. w. F. A. Lees sp.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
86 Stirling. Croall cat.
87 Perth west.
90 Forfar. Croall sp.
92 Aber. south ? Dickie ms.

543 Knautia arvensis.

Counties all, except 42 43 47 48 74 78 86 94 97 98 101 to 105 107 109 110 112. An uncommon plant in North Britain. I saw it in 96 106 108, but distrusted its nativity there. (95 96 106 108 111).

544 Tragopogon pratensis, including *minor*.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Banker sp.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west! Syme sp.

17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper.
27 Norf. east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop ! Leighton sp.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Atwood sp.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts. Howitt sp.
57 Derby !
58 Chester ! J.L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R.B. Bowman sp.
67 Northum. R.B. Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland. Oliver sp.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
85 Fife. Dewar sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.
08 Suth. west ! Introduced ?
09 Caithness.

546 Helminthia echioides.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west ! Borrer cat.
14 east. Hall cat.
15 Kent east ! G.E. Smith cat.
16 west. Twining sp.
17 Surrey ! Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford. Beesley cat

24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Twining sp.
34 west! Thwaites sp.
35 Monmouth. Ch. Bab. ms.
36 Hereford. "Wilmott."
37 Worcester. Bagnall ms.
38 Warwick. Bree ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea. Robinson cat.
53 Lincoln south. Fowler rec.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby.
58 Chester! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
66 Durham. Bowman sp.
68 Cheviot. Richardson sp.
69 Westmoreland. Linton.
80 Roxb. Brotherston rec.*
81 Berwick. Cleghorn sp.
82 Haddington. E. B. ed. 3. (80 83 85; introduced).

547 Picris hieracioides.

1 Corn. west.
3 Devon south. Briggs cat.
4 north. Briggs.
6 Som. north! Thwaites cat.
7 north. Flower cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Roper.
15 Kent e. G. E. Smith cat.
16 west. Groves rec.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bagnall.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgom. J. E. Bowman ms.
48 Merioneth. (W. W. Reeves).
49 Carnarvon? Robinson cat.
50 Denbigh. Bailey rec.
52 Anglesea? Robinson cat.
53 Linc. south. Fowler rec.

54 Linc. north ! Bogg cat.
55 Leicester.
56 Notts.
57 Derby !
61 York s. east. Webster rec.
62 n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
70 Cumberland. Baker cat.
80 Roxburgh. Brotherston rec.† (67 68). [77 Hook. Scot.]

548 Leontodon hirtus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north !
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex west ! Borrer cat.
14 east ! Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks !
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts !
32 Northton ! Berkeley ms.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
50 Denbigh. J. E. Bowman cat.
51 Flint !
53 Lincoln south !
54 north ! Bogg cat.
55 Leicester. Bloxam sp.
56 Notts.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Bean sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham.
67 Northumberland.
69 Westmoreland. Windsor.
70 Cumb. "Thomas Benson."
80 Roxburgh. Brotherston rec.
82 Haddington. Balfour cat.
83 Edinburgh. Balf. flo. [77 88]. (92 Dickie †). This plant well illustrates the practical difficulty in tracing a line of severance between "common" and "not common" plants. Its abundance in South England would place it in the list of common plants for the first forty or sixty counties; yet it is quite rare or local in Scotland, if genuinely wild anywhere in that northern half of Britain.

549 Leontodon hispidus.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent. e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Watkins cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Coleman ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. Storey ms.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland. Borrer ms.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston rec.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Syme sp.
82 Haddington. Balfour cat.
83 Edinburgh. Campbell sp.
85 Fife.
88 Perth mid. Miller cat.
90 Forfar.
91 Kincardine. Dickson cat.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross cat.
04 north? Lawson cat.
[111; a misnomer].

550 Leontodon autumnalis.

Counties all, except 42 71 to 74 84. Doubtless it occurs

in every county. *L. pratensis* and *Taraxaci* are included herewith, as being only trifling varieties.

551 Hypochœris glabra.

3 Devon south. Briggs sp.
4 north! Rogers sp.
5 Som. south. Coleman cat.
9 Dorset. "Mr. Frampton."
10 Wight. More cat.
12 Hants north! Bromf. ms.
13 Sussex west. Borrer cat.
16 Kent west. G. E. Smith.
17 Surrey!
20 Herts.
24 Bucks.
25 Suffolk east. Bloomfield.
26 west. Bloomfield.
27 Norfolk east. Stock sp.
28 west. Bell ms.
29 Cambridge.
30 Bedford.
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop. Leighton cat.
56 Notts?
58 Chester. J. L. Warren ms.
59 Lanc. south. Lewis rec.
63 York s. west.
64 m. west.
75 Ayr.
87 Perth west. Tate ms.
90 Forfar?
91 Kincardine.
95 Elgin. Gordon sp.
96 Easterness. Stables sp.
00 Clyde-isles. Syme sp.
[61 62]. (66).

552 Hypochœris maculata.

1 Corn. west. Cunnack sp.
19 Essex north. Gibson ms.
26 Suffolk west. Extinct?
29 Cambridge. Gibson sp.
32 Northton. Berkeley ms.
49 Carnarvon. Fielding ms.
69 Westmorl. Windsor sp.
[4 9 26 28 33 64 70 90; maculate varieties of *Hieracium* have been repeatedly mistaken for this plant].

553 Hypochœris radicata.

Counties all, except 42 60 74 80 98 103 112.

554 Lactuca virosa.

2 Cornwall east.
3 Devon south. Briggs sp.†
6 Som. north. Parfitt ms.
9 Dorset. Pleydell cat.
10 Wight. More cat.
13 Sussex w. J. L. Warren ms.
14 east. Bor. cat. co.
15 Kent e. G. E. Smith cat.
16 west. Bossey sp.
17 Surrey! Coleman sp.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts.
21 Middlesex. Hind sp.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Bab. ms.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
32 Northton. Berkeley ms.
33 Gloster east.
34 w. Russell n. b. g.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.

40 Salop ? Bad authority.
41 Glamorgan.
54 Lincoln north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
61 York s. east.
62 n. east.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Baker sp.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland. Melvill.
75 Ayr. Duncan cat.
81 Berwick.
83 Edinburgh ! Lloyd sp.
86 Stirling ! G. Macnab sp.
88 Perth mid. (F. B. White).
89 east !
[11 34 49 50 111 ; all errors ?]

555 Lactuca Scariola.

16 Kent west. Syme.
17 Surrey. Pamplin ms.
18 Essex south. Varenne sp.
27 Norfolk east. Trimmer flo.
29 Cambridge. Babington cat.
37 Worcester. Westcombe sp.
[13 21 25 26 57; errors ?].

556 Lactuca saligna.

14 Sussex east. Mrs. Jones sp.
15 Kent east. F. Brent sp.
16 west ! French sp.
18 Essex south. Syme sp.
21 Middlesex. Extinct.
25 Suffolk east.
27 or 28 Norfolk. (K. Trimmer).
29 Cambridge. Fryer.
31 Hunts. Fryer.
[9 36 37 55 56 ; not verified of late years].

557 Lactuca muralis.

1 or 2 Corn. "G. S. Gibson."
3 Devon south.
4 north. Gibson ms.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Miss Bell ms.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west. Roper.
17 Surrey !
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bell sp.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. (Saunders rec.)
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. Briggs.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.

45 Pembroke. Babington cat.
46 Cardigan. (Ar. Bennett).
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon ? Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint Robinson cat.
52 Anglesea ? Robinson cat.
54 Lincoln north. Fowler rec.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby ! Howitt cat.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Hiern.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Storey sp.
67 Northumb. Storey cat.
69 Westmoreland !
70 Cumberland ! Baker cat.
86 Stirling. Duthie cat.
88 Perth mid. Miller.†
(83 95 104; introduced).

558 Sonchus palustris.

16 Kent west. Kippist sp.
18 Essex south. Newman sp.
25 Suffolk east. Paget sp.
27 Norfolk east.
28 west.
29 Cambridge. Extinct.
31 Hunts. Berkeley ms.
[3 9 11 or 12 17 20 23 39 40 55 56 69 75 83]. All these are probably erroneous; possibly extinct in 21, which may have been correct.

559 Sonchus arvensis.

Counties all, except 42 74 97 98 104 107 or 108 110.

560 Sonchus asper.

Counties all, except 23 42 50 52 56 57 61 71 to 75 80 84 89 92 to 98 106 107 108; very likely to occur in all of these counties, but was long passed by as a form of *oleraceus*.

561 Sonchus oleraceus.

Counties all, except 42 47 73 74 78 97 98 110; very likely to occur in all.

562 Mulgedium alpinum.

90 Forfar ! Brand sp.
92 Ab. south. H.M.Balfour sp.
[67 75; some error ?]

563 Crepis virens.

Counties all, except 42 72 73 74 97 107 108 111 112.

564 Crepis biennis.

14 Sussex e. Mrs. Oakeshott.
15 Kent e. ! G. E. Smith cat.
16 west. Syme sp.
18 Essex south.
19 n. G. S. Gibson sp.
20 Herts.
25 Suffolk east ?
26 west. Skepper cat.
29 Cambridge. Babington cat.
32 Northton !
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
54 Lincoln north.
55 Leicester.

62 York n. east.
92 Aber. south. (Prof. Traill). (2 3 7 10 17 21 58 66 80). [5 9 17 28 39 44 49 56 57 61 64 66 67 69 82; counties insufficiently vouched, and perhaps mostly erroneous; this name having been formerly misapplied to the *Barkhausia taraxacifolia*].

566 Crepis succisifolia.

64 York m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham. Babington ms.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
78 Peebles. Brotherston.
80 Roxburgh. Brotherston.
81 Berwick. Embleton ms.
83 Edinburgh.
87 Perth west. Dewar sp.
90 Forfar.
91 Kincardine ?
92 Aber. s. Roy, to 370 yards.
94 Banff. Roy ms., 265 yards.
99 Dunbarton.
[85 Inverkeithing ?]

567 Crepis paludosa.

38 Warwick. Bagnall ms.
39 Stafford ?
40 Salop.
41 Glamorgan.
47 Montgomery. Ley cat.
48 Merioneth. Anderson ms.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Rev. A. Ley sp.
58 Chester.
59 Lanc. south ! Goodlad hb.
60 Lanc. west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland ! Beevor sp.
70 Cumberland ! Baker cat.
72 Dumfries.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall cat.
87 Perth west ! Syme cat.
88 mid ! Worsley cat.
89 east !
90 Forfar !
91 Kincardine.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
98 Argyle. Church Bab. ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
04 Eb. north. Lawson cat.
05 Ross west. (Druce).
06 east. Gordon cat.
07 Suth. e. ? "Ben Clibrick."
08 w. ? "Ben Clibrick."
09 Caith. Brown Campst. cat.
[3 4 28; erroneous ?]

568 Hieracium Pilosella.

Counties all, except 42 74 98 112.

569 H. collinum.
(*H. pratense*, Fries.)

79 Selkirk. Farquharson.*
83 Edinburgh. Craig Christie.*
95 Elgin. Rev. J. Keith sp.*

570 H. alpinum. Aggr.

49 Carnarvon.
69 Westmoreland.
70 Cumberland. Baker cat.
88 Perth mid!
90 Forfar! Croall sp.
92 Aber. south! Croall sp.
96 Easterness! Hooker sp.
97 Westerness!
98 Argyle.
99 Dunbarton.
04 Eb. north.
05 Ross west.
08 Suth. west!

570*H. melanocephalum.
(*H. alpinum*, Backh. Mon.)

90 Forfar.
92 Aber. s.! Backhouse sp.
96 Eastern.? "on Braeriach."

570*H. holosericeum.

70 Cumberland. Baker cat.
88 Perth mid!
89 east. (F. B. White).
90 Forfar. Backhouse sp.
92 Aber. s. Backhouse sp.
97 Westerness.
98 Argyle. Ross.

570*H. eximium.

88 Perth mid. (F. B. White).
89 Perth east. (F. B. White).
90 Forfar! Croall sp.
92 Aber. south! Croall sp.
94 Banff.
97 Westerness!

570*H. calenduliflorum.

88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
92 Aber. south. Backhouse sp.

570*H. gracilentum.

90 Forfar. Backhouse sp.
92 Aber. south! Backhouse sp.
98 Argyle. Roy.

570*H. globosum.

89 Perth east. (F. B. White).
92 Aber. south. Backhouse sp.
94 Banff. Eng. Bot. edit. 3.

571 H. pulmonarium. Aggr.

65 York n. west.
69 Westmoreland.
70 Cumberland. Baker cat.
85 Fife?
88 Perth mid. Syme sp.
89 east. Mackay, 1800.
90 Forfar! Croall sp.
92 Aber. south!
94 Banff.
96 Easterness. Hooker sp.
97 Westerness! J.E. Smith hrb.
08 Suth. west. Oliver sp.
N.B. This may be understood to include the *nigrescens* and *chrysanthum* of Mr. Backhouse's Monograph.

571*H. nigrescens.

88 Perth mid. Syme sp.
90 Forfar. Gardiner sp.
92 Aber. south. Syme sp.
96 Easterness. Hooker sp.
97 Westerness.
[65 69 70 85 89 94 108].

571*H. lingulatum.

88 Perth mid.
90 Forfar.
92 Aber. south. Syme sp.
96 Easterness. Miller.
97 Westerness!

571*H. senescens.

85 Fife. Balf. and Sadler flo.
88 Perth mid.
90 Forfar!
92 Aber. south. Syme sp.
99 Dunbarton.

571*H. chrysanthum.

69 Westmoreland.
70 Cumberland. Baker cat.
89 Perth east. (F. B. White).
90 Forfar! Backhouse sp.
92 Aber. south. Croall sp.
96 Easterness. Hooker sp.
97 Westerness!
08 Suth. west. Oliver sp.

572 H. murorum. Aggr.

Counties all, except 1 2 10 11 15 18 19 23 26 31 41 44 47 48 51 53 54 56 61 71 72 73 74 97 98 102 103. As thus taken it must be understood to include the *murorum* and *cæsium* of the Monograph; two alleged species which I am unable to distinguish with any certainty. [20 29].

572*H. murorum. Segr.

7 Wilts north. Preston.
9 Dorset.
17 Surrey.
33 Gloster east. Stephens sp.
34 west. Stephens sp.
36 Hereford. Purchas sp.
57 Derby. Buckland sp.
62 York n. east. Baker sp.
65 n. west. Baker.
66 Durham. Baker sp.
67 Northumberland.
68 Cheviotland.
70 Cumberland!
90 Forfar. Croall sp.
92 Aber. south!

572*H. cæsium.

45 Pembroke. Babington cat.
49 Carnarvon. var. *cambricum*.
62 York n. east. Baker sp.
64 m. w. Backhouse sp.
65 n. west. Baker.
66 Durham.
68 Cheviotland.
69 Westmoreland. Borrer.
70 Cumberland. Ley rec.
90 Forfar. Backhouse sp.
92 Aber. south!
08 Suth. west. Oliver sp.
11 Orkney. Syme sp.
(29).

572*H. flocculosum.

90 Forfar. Backhouse.
92 Aber. s. Backhouse sp.
96 Easterness? "Braeriach."

573 H. sylvaticum. Aggr.

Counties all, except 2 16 25

26 30 31 43 45 51 71 72 74 84 93 105 111. As thus taken it must be understood to include *vulgatum* of the Monograph, more or less mixed up with *tridentatum*, *gothicum*, and perhaps also with some other species of the Monograph.

573*H. vulgatum.

7 Wilts north. Preston.
10 Wight. More cat.
11 Hants south!
12 north!
17 Surrey!
18 Essex s. G. S. Gibson flo.
19 n. G. S. Gibson flo.
20 Herts. Wallis sp.
22 Berks. Britten cont.
27 Norfolk east. Babington.
34 Gloster west. Ley rec.
38 Warwick. Bromwich.
43 Radnor. E. H. Jones cat.
47 Montgomery. Melvill cat.
49 Carnarv. Backhouse mon.
62 York n. east. Baker sp.
63 s. w. F. A. Lees
64 m. w. Backhouse sp.
65 n. west. Baker.
66 Durham. Soutter sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland!
78 Peebles. Brotherston cat.
83 Edinburgh.
85 Fife. Syme.
86 Stirling. Duthie sp.
87 Perth west!
88 mid!
89 east!
90 Forfar. Croall sp.
92 Aber. south. Dickie cat!
96 Easterness. Stables sp.
03 Eb. mid.
04 north. Lawson cat.
05 Ross west. (Druce).

573*H. gothicum.

48 Merioneth. Backhouse mon.
49 Carnarv. Backhouse mon.
62 York n. east. Baker sp.
64 m. west. Tatham sp.
65 n. west. Baker.
66 Durham. Baker sp.
67 Northumb. Storey sp.
68 Cheviotland. Baker.
80 Roxburgh?
85 Fife. Dewar sp.
87 Perth west. Boswell sp.
90 Forfar. Croall sp.
92 Aber. south. Croall sp.

573 H.*Dewari.

87 Clackmannan. Syme.
98 Argyle.
99 Dunbarton.

574 H. maculatum.

N.B. I am not aware of any really indigenous locality for this plant, after separating from Smith's species the stained-leaved variations of '*murorum*' and of other species similarly marked.

575 H. pallidum.

3 Devon south. Dartmoor!
4 north. Mott rec.
5 Som. south? Gifford sp.
36 Hereford? Purchas sp.
46 Cardigan. Atwood sp.
47 Montgomery. Melvill cat.
49 Carnarvon. Ley.
50 Denbigh! J.E. Bowman sp.

57 Derby. Kirk sp.
64 York m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. Baker sp.
67 Northumb. Oliver sp.
68 Cheviot. W. H. Brown sp.
69 Westmoreland! Oliver sp.
70 Cumberland. Baker cat.
72 Dumfries.
80 Roxburgh. Brotherston rec.
81 Berwick. Brotherston rec.
83 Edinburgh!
87 Perth west. Dewar sp.
88 mid. Miller.
89 east!
90 Forfar! Gardiner sp.
92 Aber. south! Syme sp.
96 Easterness!
98 Argyle.
99 Dunbarton. Hooker sp.
06 Ross east. Stables sp.
07 Suth. east. Oliver sp.
08 west?
09 Caithness. (Grant).
11 Orkney. Syme sp.

N.B. This name is one of recent introduction into our descriptive Floras. Smith probably would have divided the specimens between his *murorum* and *Lawsoni*.

575*H. cinerascens.
(*H. lasiophyllum*, Bab.)

36 Hereford?
47 Montgomery. Melvill cat.
49 Carnarvon.
68 Cheviotland.
90 Forfar.
92 Aber. s. Backhouse sp.
12 Shetland?

575*H. Gibsoni.

64 York m. west. Tatham sp.

575*H. argenteum.

49 Carnarvon. Butler sp.
68 Cheviotland. Oliver sp.
70 Cumberland. Baker cat.
89 Perth east.
90 Forfar. Gardiner sp.
91 Kincardine.
92 Aber. s.! Backhouse sp.
08 Sutherland west. (Miller).
10 Hebrides.

575*H. nitidum.

92 Aber. s. Backhouse sp.
96 Easterness.

575*H. aggregatum.

90 Forfar. Roy.
92 Aber. s. Backhouse sp.

576*H. anglicum.

64 York m. west. Tatham sp.
65 n. west.
66 Durham. Baker sp.
69 Westmoreland!
70 Cumberland. Oliver sp.
72 Dumfries.
85 Fife.
88 Perth mid! Miller cat.
89 east!
90 Forfar! Croall sp.
92 Aber. south! Syme sp.
03 Ebudes mid. Ross rec.

N.B. This includes the *Lawsoni* and *cerinthoides* of the older botanists; and it has occasionally been reported under the name of *villosum*.

[81 83 86 91 96 97 98 104 105 108 110 111.]

577 H. iricum.

65 York n. west. Gibson sp.
66 Durham. Babington sp.
72 Dumfries.
92 Aber. south ! Croall sp.
08 Suth. west. Oliver sp.
09 Caith. ? Brown Campst. cat.
11 Orkney. Miss. Fortescue.

578 H. Borreri.

(*H. Juranum*, Fries.)

79 Selkirk ? "Dickson."
99 Dunbarton. Borrer ms.
N.B. Still remains a dubious plant; see Cyb. Brit. vol. 3, page 359. The name *denticulatum* has been variously applied, perhaps most frequently to examples of *strictum*. Mr. Backhouse referred dried specimens of this plant to *prenanthoides*, with which I cannot concur, after cultivating both of them during many years.

579 H. prenanthoides.

42 Brecon ? Ley rec.
57 Derby. Whitelegg sp.
64 York m. west. Tatham sp.
65 n. west.
67 Northumb. Thompson sp.
68 Cheviotland. Tate sp.
79 Selkirk? Farquharson cat.
88 Perth mid ! Miller cat.
92 Aber. south ! Balfour sp.
96 Easterness. Stables cat.
09 Caith. Brown Campst. cat.
[69 70 77 81 83 84 85 86 89 90 91 95 104; uncertain].

580 H. crocatum.

48 Merioneth. Ley rec.
62 York n. east.
64 m. w. F. A. Lees cat.
65 n. west. Gibson sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland. Borrer.
70 Cumberland. Baker cat.
79 Selkirk. Brotherston rec.
80 Roxburgh. Brotherston rec.
87 Perth west. Balfour sp.
88 mid !
89 east !
90 Forfar. Kerr sp.
91 Kincardine. Syme sp.
92 Aber. south ! Croall sp.
96 Easterness ? Gordon sp. ?
98 Argyle ? Lyon sp. ?
03 Ebudes mid. Ross rec.
[10 112; erroneous].

581 H. strictum.

(*H. denticulatum*, Sm.)

57 Derby ?
69 Westmoreland !
70 Cumberland. Oliver sp.
85 Fife. Eng. Bot. ed. 3.
87 Perth west. Balfour sp.
88 mid. Balfour sp.
90 Forfar. Kerr sp.
96 Easterness. Eng. Bot. ed. 3.
98 Argyle. Lyon sp.
99 Dunbarton. Eng. Bot. ed. 3.
02 Eb. south. Balfour sp.
08 Suth. west !
11 Orkney. Syme.
N.B. I do not clearly know this species, and trust chiefly to Mr. Backhouse for the names of my specimens cited above. It seems nearly allied to *crocatum*, formerly called *inuloides*.
[64 65].

582 H. tridentatum.

8 Devon south. Rogers sp.
4 north!
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More sp.
12 Hants north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east!
16 west! Atkins sp.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
21 Middlesex.
22 Berks!
29 Cambridge?
34 Gloster west. Thwaites sp.
36 Hereford. Purchas ms.
38 Warwick. Bloxam sp.
44 Carmarthen. Ley rec.
48 Merioneth. Ley rec.
55 Leicester. Bloxam sp.
58 Chester. Wood sp.
62 York n. east. Baker sp.
64 m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham.
67 Northumberland.
69 Westmoreland?
70 Cumberland?
87 Perth west. Syme.

N.B. This includes the so-called *gothicum* and *rigidum* of the southern counties, but is different from the *rigidum* of Backhouse, no. 31.

583 H. corymbosum.

65 York n. west. Baker sp.
66 Durham. Gibson sp.
67 Northumb. New flo.
68 Cheviotland. New flo.
77 Lanark. Hooker sp.
80 Roxburgh. Johnston sp.
87 Perth west. Dewar sp.
88 mid!
89 east!
90 Forfar. Croall sp.
92 Aber. south! Syme sp.
96 Easterness. E. B. ed. 3.
03 Ebudes mid.
08 Suth. west. Graham sp.
11 Orkney. Boswell.

N.B. This is the *rigidum* of Backhouse's Monograph, perhaps partly confused with *strictum;* certainly I do fail in assigning some of the dried specimens between these two.

584 H. umbellatum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw ms.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north!
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks! Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west.

27 Norfolk east.
28 west. Bell ms.
29 Cambridge ?
30 Bedford.
32 Northton. Notcutt cat.
34 Gloster west. Wilmott sp.
35 Monmouth. Bladon sp.
36 Hereford.
37 Worcester. F. A. Lees rec.
38 Warwick. Kirk cat.
39 Stafford!
40 Salop.
41 Glamorgan.
42 Brecon.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north. F. A. Lees rec.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker sp.
64 m. w. Tatham cat.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate ms.
69 Westmoreland. Oliver ms.
70 Cumberland. Oliver sp.
72 Dumfries. Gordon ms.
73 Kirkcudb. Balfour sp.
80 Roxburgh. Brotherston rec.
[77 81 83 88 90 91 100 101 102 108 109; all uncertain, though possibly some of them correct].

584 H. boreale.

Counties all, except 31 42 43 47 48 60 71 72 74 75 78 82 86 88 89 93 95 to 98 103 105 to 112. Frequent in England; much less so in Scotland. Seldom confused with any other species, but a Surrey example of *tridentatum* was named *boreale* by Dr. C. H. Schultz; although other examples of each species were rightly named by him. Said to be misnamed *umbellatum* by some of the Edinburgh botanists.

585 Barkhausia fœtida.

6 *Som. north.* Flower sp.†
13 Sussex west. Borrer ms.
14 east. Mrs. Jones sp.
15 Kent east! Syme sp.
16 west! Macnab sp.
17 Surrey ?
18 Essex south.
19 n. G. S. Gibson sp.
21 Middlesex. Ar. Bennett hrb.
22 Berks.
24 Bucks ?
25 Suffolk east.
26 west. Bab. sp.
28 Norfolk west.
29 Cambridge.
[21 36; both errors ?]

586 B. taraxacifolia.

2 Cornwall east. Briggs.†
3 Devon south.
9 Dorset. Rogers.
15 Kent east. Blow rec.

16 Kent west!
17 Surrey. Ar. Bennett sp.
18 Essex south. Varenne ms.
20 Herts. Blow rec.
21 Middlesex. Neve sp.†
25 Suffolk east. Bloomf. cat.
32 Northampton. Druce rec.†
49 Carnarvon. "J. Roberts!"
62 York n. east.
64 m. w. F. A. Lees cat.†
[14 59]. (66 67 80).

588 Taraxacum officinale.

Counties all, except 41 74.

588*T. officinale,
var. *erythrospermum.*

2 Cornwall east. Briggs sp.
3 Devon south. Briggs sp.
7 Wilts north. Preston ms.
9 Dorset. Pleydell cat.
10 Wight. More ms.
13 Sussex west. Syme sp.
14 east. Roper.
16 Kent west. F. A. Hanbury.
17 Surrey!
19 Essex north. Varenne ms.
20 Herts. R. A. Pryor.
21 Middlesex!
26 Suffolk west. Bab. cat.
29 Cambridge.
30 Bedford. Hillhouse cat.
38 Warwick. Bagnall.
58 Chester. F. M. Webb.
59 Lanc. s. F. M. Webb cat.
64 York m. west. West rec.
85 Fife. Boswell Syme sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
11 Orkney. Syme.
N. B. Probably common; hitherto sparingly on record.

558*T. officinale,
var. *lævigatum.*

9 Dorset.
10 Wight.
13 Sussex west.
29 Cambridge.
40 Salop.
52 Anglesea.
69 Westmoreland.
85 Fife.

588*T. officinale,
var. *palustre.*

2 Corn. east. Briggs sp.
3 Devon south. Briggs sp.
5 or 6 Somerset.
9 Dorset. Pleydell cat.
10 Wgt. "*udum*, not *palustre*."
11 Hants south. Towns cat.
12 north.
13 Sussex west. Borrer cat.
17 Surrey?
20 Herts.
22 Berks.
26 Suffolk west. Bab. cat.
27 Norfolk east. Stock cat.
28 west.
29 Cambridge. Stevens sp.
36 Hereford.
37 Worcester.
38 Warwick. Bagnall sp.
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
52 Anglesea.
55 Leicester.
56 Notts.
57 Derby.
58 Chester!
59 Lanc. s. F. M. Webb cat.
62 York n. east.
63 s. west.

64 York m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland. Baker.
70 Cumberland ! Baker cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh !
85 Fife ! Syme cat.
86 Stirling. Croall rec.
87 Perth west. F. M. Webb rec.
88 mid !
89 east !
90 Forfar !
91 Kincardine. Syme cat.
92 Aber. south !
93 north.
94 Banff.
96 Easterness !
97 Westerness !
00 Clyde-isles. Hennedy cat.
06 Ross east. "Wilson."
09 Caith. Brown Campst. cat.
10 Hebrides ?
11 Orkney. Syme.
12 Shetland. "abundant."

589 Arnoseris pusilla.

9 Dorset. Pleydell cat.
11 Hants south. Towns. cat.
12 north ! Towns. ms.
16 Kent west.
17 Surrey !
18 Essex south.
19 north.
25 Suffolk east.
26 west.
27 Norfolk east.
28 Norfolk west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northampton.
54 Lincoln north. Britten.
55 Leicester.
66 Durham. "introduced."
90 Forfar.
92 Aber. south. Dickie cat.†
94 Banff.
95 Elgin. Gordon cat.†
N.B. Reported in some other counties, which require verification. Uncertain in its localities from year to year.

590 Lapsana communis.

Counties all, except 42 74 97 103 112; may be really absent from the last of these, Shetland.

591 Cichorium Intybus.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
10 Wight. Bromfield ms.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east.
15 Kent east ! G. E. Smith cat.
16 west ! Roper.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks. Britten cat.

23 Oxford. Beesley cat
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton !
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
43 Radnor. Jones cat.†
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south !
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.†
64 m. west.
65 n. west. "colonist."
66 Durham. "colonist."
67 Northumb. "colonist."
68 Cheviot. Embleton cat.†
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.† "v.r." (58 59 75 77 80 to 85 89 90 92 93 95 96 99 109).

592 Arctium Lappa. Aggr. Counties all, except 46 74 78 97 98 103.

592 A. majus.

2 Cornwall east. Briggs.
3 Devon south. Briggs cat.
5 or 6 Somerset.
7 Wilts north. Preston ms.
8 south.
9 Dorset. Rogers.
10 Wight. More ms.
11 Hants south. H. Groves sp.
12 north.
13 Sussex w. J. L. Warren.
14 east. Roper.
15 Kent east. Baker.
17 Surrey !
19 Essex north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex.
23 Oxford. R. A. Pryor.
24 Bucks.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Blow rec.
31 Hunts. Newbould cat.
35 Monmouth.
36 Hereford.
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
53 Linc. south. Fowler rec.
54 n. Fowler & Lees rec.
55 Leicester.
57 Derby. Kirk ms.
58 Chester.
59 Lanc. south.
61 York s. east.
63 s. w. F. A. Lees rec.
64 n. w. F. A. Lees rec.
[66 82 84 85; insufficiently vouched].

592 A. minus.

1 Cornwall west.
2 east. Briggs ms.
3 Devon south. Briggs cat.
6 Som. north. Bab. ms.
7 Wilts north. Bab. ms.
8 south.
9 Dorset. Rogers ms.
10 Wight. More ms.
11 Hants south. Towns. cat.
12 north. Baker ms.
13 Sussex west. Borrer cat.
14 east.
15 Kent east. Baker.
17 Surrey! Syme ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
24 Bucks.
25 Suffolk east. Purchas ms.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Blow rec.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
34 Gloster w. F. A. Lees rec.
35 Monmouth.
36 Hereford.
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
39 Stafford. Bagnall ms.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen. Jones rec.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon.
51 Flint. (H. L. Jones).
53 Linc. s. Lees & Fowler rec.
54 north. Fowler rec.
55 Leicester. Coleman cat.
57 Derby. Kirk ms.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east. (F. A. Lees).
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland. (Lewis).
70 Cumberland. Baker cat.
75 Ayr. "Ailsa craig."
78 Peebles. Brotherston cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
05 Ross west. (Druce).
09 Caithness. Nicolson cat.
11 Orkney. Syme.

592*A. intermedium.

1 Cornwall west.
3 Devon south. Briggs.
9 Dorset.
10 Wight.
14 Sussex e. J. L. Warren cat.
17 Surrey.
19 Essex north.
21 Middlesex.
27 Norfolk east. Babington.
29 Cambridge.
44 Carmarthen.
45 Pembroke.
48 Merioneth. (Reeves).
49 Carnarvon.
57 Derby.
61 York s. east. (F. A. Lees).
63 s. west.
64 m. w. F. A. Lees rec.

592*A. nemorosum.

10 Wight.
11 Hants south. Towns. cat.
12 north.
15 Kent east. Blow rec.
18 Essex south.
19 north.
20 Herts. Blow rec.
21 Middlesex.
29 Cambridge. R. A. Pryor sp.
49 Carnarvon.
57 Derby.
58 Chester.
67 Northumberland.
81 Berwick.
83 Edinburgh.
11 Orkney ?

593 Saussurea alpina.

48 Merioneth. Backhouse.
49 Carnarvon. Butler sp.
69 Westmoreland. Foggitt.
70 Cumberland.
72 Dumfries.
87 Perth west. Hooker sp.
88 mid !
89 east. (F. B. White).
90 Forfar !
92 Aber. south ! Dickie cat.
97 Westerness !
98 Argyle. Church. Bab. ms.
99 Dunbarton.
01 Cantire. Balfour cat.
04 Eb. north. Lawson cat.
05 Ross west.
08 Suth. west. Graham sp.
09 Caithness. Horn rec.
10 Hebrides. 1 locality.
11 Orkney. Syme cat.
12 Shetland. Tate sp.
[59 Hall, in B. G.]

594 Serratula tinctoria.

1 Corn. west ! Cunnack sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
6 Som. north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
16 Kent west. E. Twining sp.
17 Surrey ! Pamplin ms.
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks !
23 Oxford. Beesley cat.
26 Suffolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon. Harris sp.
50 Denbigh. J. E. Bowman cat.
52 Anglesea ! Robinson cat.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.

57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south!
62 York n. east. Baker sp.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland.
69 Westmor.! H. E. Smith sp.
70 Cumberland. Oliver ms.
72 Dumfries.
73 Kirkcudbright. Syme sp.
[26 77 111; errors?]

595 Carduus nutans.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Hall cat.
15 Kent e. G. E. Smith cat.
16 west?
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Bab. cat.
27 Norfolk east. Notcutt cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
31 Hants! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Gordon ms.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby!
58 Chester. J. L. Warren ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland! Oliver sp.
77 Lanark. Hennedy cat.†
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh.
91 Kincard. Mrs. Dickson ms.
95 Elgin. Gordon cat.†
04 Eb. north. Lawson cat.
N.B. Is it truly indigenous in Scotland? [111].

596. C. crispus.

Counties all, except 4 35 42 43 47 48 71 to 75 80 88 89 93 94 96 97 98 100 103 105 to 112. Rare, and perhaps not truly indigenous in North Britain; so that it might be included among the less common plants. Until lately it was usually named *acanthoides* in our Floras, etc.

597 C. tenuiflorus.

1 Corn. west !
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north. Atwood ms.
7 Wilts north ? Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north.
13 Sus. w. ! G. E. Smith cat. co.
14 east ! Roper cat.
15 Kent e. ! G. E. Smith cat.
16 west !
17 Surrey. Pamplin ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. J. L. Warren rec.
21 Middlesex.
22 Berks.
23 Oxford.
25 Suffolk east. Paget sp.
27 Norfolk east. Babington.
28 west. Miss Bell ms.
30 Bedford.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. (Parsons rec.)
52 Anglesea. Robinson cat.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s. ! F. M. Webb cat.
60 west. Linton cat.
62 York n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland. Foggitt.
70 Cumberland !
71 Man. Forbes cat.
74 Wigton. (McAndrew).
75 Ayr.
77 Lanark ?
79 Selkirk. Soutter rec.*
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Graham sp.
85 Fife. E. Young sp.
86 Stirling. Croall rec.
90 Forfar.
91 Kinc. " Mr. Chrystall."
95 Elgin ?
00 Clyde-isles ?

599 C. lanceolatus.

Counties all, except 42 73 74 98. No doubt it occurs in every county.

600 C. eriophorus.

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south.
12 north.
15 Kent e.! G. E. Smith cat.
17 Surrey?
18 Essex south?
19 north.
20 Herts.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks?
25 Suffolk east?
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton! Druce.
33 Gloster east. Prentice cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Lloyd sp.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.†
45 Pembroke.
47 Montgomery. (J. E. Vize).
53 Linc. south. Bloxam ms.
54 north!
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester?
60 Lanc. west?
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. New flo.
(67 77 87). [1 2 3 13 14 70 84 85 98 99].

601 C. palustris.

Counties all, except 74 98 104 108. Doubtless to be found in every county.

602 C. arvensis.

Counties all, except 74. Doubtless it occurs in every county.

604 C. pratensis.

2 Corn. east. Wise sp.
3 Devon south. Gibson ms.
4 north. Wise sp.
6 Som. north. Collins.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Bromf. sp.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Brewer sp.
15 Kent east.
17 Surrey! Ellis sp.
18 Essex south.
20 Herts. Coleman sp.
21 Middlesex. Crespigny.
22 Berks! Mrs. Russell sp.
23 Oxford.
24 Bucks.
25 Suffolk east.
26 w. Bloomfield cat.
27 Norf. east. Stock cat.
28 west. Cooper sp.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
34 Gloster west. Thwaites ms.
35 Monmouth. Conway cat.

36 Hereford.
37 Worcester. E. Lees sp.
38 Warwick. Bloxam sp.
39 Stafford. Bidwell sp.
40 Salop. Leighton cat.
41 Glamorgan. Lees sp.
42 Brecon. E. Forster ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley ms.
N. Wales. Eng. Bot. ed. 3.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts.
61 York s. east.
62 n. east. Bot. n. y.
63 s. w. F. A. Lees rec.
64 m. w. F. A. Lees cat.
[66 67 75 100 102].

605 C. tuberosus.

7 Wilts north. Preston rec.
8 s. now "scarce."
[7 41 *C. Woodwardii*].

606 C. acaulis.

3 Devon south.
5 Som. south. Poole ms.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Bell sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Pamplin ms.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west. Syme sp.
17 Surrey! Ellis sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Bab. cat.
27 Norfolk east. Stock cat.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Morley sp.
34 west! Atwood sp.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Lloyd sp.
41 Glamorgan.
53 Lincoln south. Fowler rec.
54 north!
55 Leicester.
56 Notts.
58 Chester. "Robinson."
63 York s. w. F. A. Lees rec.
[67 70; probably errors].

607 C. heterophyllus.

39 Stafford.
41 Glamorgan.
49 Carnarvon. Robinson cat.
51 Flint. (H. L. Jones rec.)
57 Derby! J. E. Bowman ms.
58 Chester. F. M. Webb.
59 Lanc. south. Goodlad hb.
62 York n. east.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland!
72 Dumfries. A. Sibbald sp.
75 Ayr. Duncan cat.
76 Renfrew. Montgomery cat.
77 Lanark. Hennedy cat.

79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Lloyd sp.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west. Syme cat.
88 mid. E. Twining ms.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Ch. Bab. ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south.
03 mid. Ross rec.
04 north. Lawson cat.
05 Ross west. Ch. Bab. ms.
06 east. Gordon cat.
07 Suth. east.
08 west. Johnston ms.
09 Caith. Brown Campst. cat.
[17 21 22 27 55; errors, perhaps through the mistake of giving this name to luxuriant examples of *C. pratensis*.]

608 Onopordum Acanthium.

1 Cornwall west.
3 Devon south.
4 north?
6 Som. north. Collins ms.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight. Extinct?
11 Hants south! Towns. cat.
12 Hants north.
14 Sussex east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! Pamplin ms.
18 Essex s. G. S. Gibson flo.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.*
25 Suffolk east. Purchas ms.
26 west. Bab. cat.
27 Norf. east. Woodward ms.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
35 Monmouth. Ch. Bab. ms.
36 Hereford. Purchas flo.*
37 Worcester.
38 Warwick. Kirk cat.†
39 Stafford. Garner n. h.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.†
45 Pembroke. Babington cat.
47 Montg. J. E. Bowman ms.†
49 Carnarvon. Robinson cat.†
50 Denbigh?
54 Linc. north. Fowler rec.*
55 Leicester. Coleman flo.*
56 Notts.
58 Chester. J. L. Warren ms.
59 Lanc. south! Tudor ms.*
62 York n. east.
63 s. w. Parsons rec.*
64 m. west.
65 n. west. Bot. n. y.*
66 Durham. New. flo.
71 Man. Forbes cat. "v. r."
75 Ayr. Duncan cat.
77 Lanark. "from gardens."
80 Roxburgh.

81 Berwick. "introduced."
82 Haddington! Maughan sp.
83 Edinburgh. "introduced."
85 Fife. I. B. Balfour.*
(112 Shetland Flora.†)
N.B. The localities for this plant seem to be temporary at best; and often it occurs only as a casual, lasting very few years.

609 Carlina vulgaris.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Mansel cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west. Pamplin ms.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. Fordham sp.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Bab. cat.
27 Norfolk east. Stock cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick.
39 Stafford!
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Bloxam ms.
54 n.! Thompson ms.
55 Leicester.
56 Notts.
57 Derby!
58 Chester! J. L. Warren cat.
59 Lanc. south. Bloxam ms.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland! Baker cat.
73 Kirkcudbright. Lloyd ms.
74 Wigton. Balfour sp.
79 Selkirk. Farquharson cat.
81 Berwick. Embleton sp.
90 Forfar.
91 Kinc. Mrs. Dickson ms.
93 Aber. n. "found in 1872."
95 Elgin. "Dr. Innes"; Gord.†
00 Clyde-isles. Atkin sp.
N.B. Occasionally misnamed *Carduus acaulis;* thus leading to false records for that plant.

611 Centaurea nigra.

Counties all, except 42 74. Rare and perhaps an introduction by man in the three groups of North Isles. The radiate variety occurs in many counties, from Cornwall to Banff, but is most frequent in the south-western counties of England.

612 C. Cyanus.

Counties all, except 35 42 to 45 47 48 70 to 73 79 87 97 98 99 101 to 105 108 110 (111 112).

612 C. Scabiosa.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat
13 Sussex west! Borrer cat.
14 east! Roper.
15 Kent. e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bab. cat.
26 Suffolk west. Bloomfield.
27 Norfolk east. Babington.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts!
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
47 Montgomery. (J. E. Vize).
49 Carnarvon! Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south! Bloxam ms.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester. "Mr. Astley."
59 Lanc. south. Tudor ms.
60 west. (Lewis).
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland.
71 Man. J. Macnab ms.
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.†
80 Roxburgh. "Rev. J. Baird."

82 Haddington. Balfour cat.
85 Fife. J. B. Balfour ms.
88 Perth mid. (F. B. White).
89 east.
90 Forfar.
92 Aber. south. Dickie 1843.
95 Elgin. Gordon cat.†
96 Easterness. Stables sp.
08 Suth. west. "near Farr?"
N.B. My notes show this plant recorded only in one-fourth of the Scottish counties, and dubiously indigenous in some of those. Thus am I induced to place it among the less common, although so frequent in England.

615 C. Calcitrapa.

1 Corn. west. Cunnack cat.
3 Devon south.
5 Som. south.
11 Hants south. Notcutt sp.
13 Sussex w. J. L. Warren.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey. Pamplin ms.
25 Suffolk east. Bloomf. cat.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge.
30 Bedford.
32 Northampton.
41 Glamorgan. Pleydell ms. (18 19 20 63 66 67). [10 21 62, extinct or erroneous; perhaps the like in some other counties].

617 Bidens cernua.

1 Corn. west! Cunnack cat.
2 east.
3 Devon south!
4 Devon north. Maw cat.
5 Som. s.? Southby cat. co.
6 north? "near Bath."
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
34 Gloster west.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick! Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. E. Bowman sp.

59 Lanc. s. ! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east.
63 s. west. "rarely."
64 m. west.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Thompson sp.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright.
74 Wigton. (McAndrew).
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Syme sp.
85 Fife.
90 Forfar. Croall sp.
91 Kincardine.
94 Banff.
95 Elgin. Gordon cat.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.

618 B. tripartita.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Hiern.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south !
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Fryer.
32 Northton ! Notcutt cat.
33 Gloster east.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford !
40 Salop. Leighton cat.
41 Glamorgan. Gordon sp.
44 Carmarthen. Motley cat.
45 Pembroke.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south !
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester ! J. L Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. w. R.B. Bowman sp.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton sp.

69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Kinross; Syme ms.
87 Perth west. Syme cat.
95 Elgin. "found in 1869."
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.

618*Galinsoga parviflora.

17 Surrey.*
21 Middlesex.*

619 Eupatorium cannabinum.

Counties all, except 42 43 74 78 79 84 93 94 97 101 103 105 107 109 to 112. Not a common plant in Scotland.

620 Chrysocoma Linosyris.

3 Devon south. Hore sp.
6 Som. north. Christy sp.
49 Carnarvon. Babington sp. [14]. (9 13; casual here).

621 Diotis maritima.

1 Cornwall west.
3 Devon south.
9 Dorset.
10 Isle of Wight.
11 Hants s. H. & J. Groves sp.
15 Kent east.
19 Essex north.
25 Suffolk east.
52 Anglesea.
N.B. This has been recorded from the nine counties enumerated. It has become extinct in most of them. "Occasionally at Pakefield and Southwold;" Flora of Suffolk.

623 Artemisia campestris.

26 Suffolk west. Wardale sp.
27 Norfolk east.
28 west. Salmon sp.
29 Cambridge?
(66 85). [3 9 62].

624. A. maritima.

2 Corn. east. "reported."
3 Devon south.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Collins ms.
9 Dorset?
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex w.! J. L. Warren ms.
14 east. Ranking sp.
15 Kent e.! G. E. Smith cat.
16 west! Winch ms.
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Purchas ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
34 Gloster west! Cooper sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarvon. Robinson cat.

51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north! Howitt sp.
58 Chester! Hall sp.
59 Lanc. south.
60 west. Syme sp.
62 York n. east. Norman sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Man. J. Macnab ms.
73 Kirkcudbright. Lloyd ms.
74 Wigton.
75 Ayr. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
90 Forfar. Gardiner sp.
91 Kincardine. "three loc."
93 Ab. north. "added in 1871."

625 A. Absinthium.

1 Corn. west! Cunnack cat.†
2 east. Briggs cat.†
3 Devon south. Briggs cat.†
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north? Flower cat.
8 south? Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Pamplin ms.
13 Sussex w.? Borrer cat. co.
14 e.? Borrer cat. co.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. Coleman cat.†
21 Middlesex. Pamplin ms.
22 Berks.
23 Oxford. Beesley cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Isaac Brown sp.
33 Gloster east. Prentice cat.
34 west.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bree ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarvon. Gordon ms.
50 Denbigh. J. E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. south! Introduced?
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.†
62 York n. east. "denizen."
63 s. w. F. A. Lees cat.†
64 m. w. F. A. Lees cat.†
65 n. w. "denizen."
66 Durham. "denizen."
67 Northumberland. "den."
68 Cheviotland. "denizen."
69 Westmor. T. J. Foggitt.
71 Man. Forbes cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife! Lawson ms.†
87 Perth west.
90 Forfar. "A. Croall."
11 *Orkney*. Syme sp.†

12 *Shetland.* Edm. flo.
N.B. This may be a native plant along the coast, and even some distance inland; in the maritime counties but all the truly inland localities are to be distrusted as really indigenous ones.

621 Artemisia vulgaris.

Counties all, except 42 74 78 97 107. Doubtless it is to be found in every county. Shetland "common."

627 Gnaphalium dioicum.

1 Corn. west! Hore ms.
3 Devon south. Briggs sp.
20 Herts. Fordham sp.
22 Berks.
23Oxford.
26 Suffolk west.
27 Norfolk east.
28 west.
29 Cambridge. Harris sp.
30 Bedford. R. H. Webb.
32 Northton. Druce rec.
39 Stafford.
40 Salop.
41 Glamorgan.
42 Brecon.
43 Radnor. E. H. Jones cat.
44 Carmarthen.
45 Pembroke. Purchas ms.
46 Cardigan.
48 Merioneth.
49 Carnarvon! Bloxam ms.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea? Robinson cat.
53 Linc. south.
54 north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby. Howitt sp.
58 Chester.
59 Lanc. south.
60 west. Simpson sp.
62 York n. east. Baker cat.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. R.B.Bowman sp.
67 Northum. R.B.Bowman sp.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Macnab ms.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Grieve.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick. Balfour sp.
82 Haddington.
83 Edinburgh! Balfour cat.
85 Fife. Brand sp.
86 Stirling. Hooker sp.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Hooker sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Stables sp.
04 north. Ch. Bab. sp.
05 Ross west. Ch. Bab. ms.

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06 Ross east. Gordon cat.
07 Suth. east!
08 Suth. west! Graham sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

630 Gnaphal. sylvaticum.

Counties all, except 2 4 5 10 26 34 42 44 45 47 48 72 74 78 101 110; probably to be found in most of these, if not in all. 25 extinct?

630 Gnaphal. norvegicum.

88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Brand sp.
92 Aber. s. Backhouse sp.

631 Gnaphalium supinum.

86 Stirling. Hooker sp.
87 Perth west.
88 mid!
89 east!
90 Forfar! Gardiner sp.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness! Grieve.
98 Argyle.
99 Dunbarton.
05 Ross west. (Druce).
06 east. Gordon ms.
08 Suth. west! Graham sp.
[111 Orkney; Clouston].

632 Gnaphal. uliginosum.

Counties all, except 42 74 97 98 105 108 110.

634 Filago minima.

Counties all, except 33 35 41 42 46 47 48 57 60 69 71 to 74 78 97 98 102 to 105 108 to 112. Likely to be often overlooked; thus increasing the number of counties hitherto left non-recorded.

635 Filago germanica.

Counties all, except 42 60 69 72 74 78 84 93 97 98 99 102 to 105 107 to 112.

635*Filago apiculata.

(*F. lutescens*, Jord.)

11 Hants s. Townsend cat.
12 north!
17 Surrey! Dr. Mateer sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
22 Berks.
26 Suff. west. Babington sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Newb. oral.
31 Hunts. Newbould cat.
37 Worcester.
63 York s. w. G. E. Smith sp.

635*Filago spathulata.

9 Dorset. Mansel-Pleydell.
10 Wight! More sp.
11 Hants south. J. Groves sp.
12 north. Spicer ms.
13 Sussex w. J. L. Warren.
14 east!
15 Kent east. Syme.
16 west. Syme sp.
17 Surrey! Syme sp.

18 Essex south.
19 n. G. S. Gibson sp.
20 Herts.
21 Middlesex!
23 Oxford.
24 Bucks. Britten sp.
26 Suffolk west. Ar. Bennett.
29 Cambridge. Babington sp.
30 Bedford. Hillhouse cat.
54 Lincoln north.

N.B. This and the preceding are recent segregates; their counties imperfectly on record.

636 Petasites vulgaris.

Counties all, except 10 41 42 46 71 74 87 97 98 104 to 108. (109). [110 111 112]. Widely distributed, but scarcely a common plant. It has been recorded from Isla (Balfour) and Skye (Lawson). Also from the Hebrides (Balf. Bab.), from Orkney (Lowe), and from Shetland (Edmonston); in each of which there are grounds to infer that the *Tussilago* was mistaken for the *Petasites*.

637 Tussilago Farfara.

Counties all, except 74. Nominally also unrecorded for the Hebrides, in Balfour and Babington's list; on which omission see the preceding species.

638 Erigeron alpinus.

88 Perth mid. Maughan sp.
90 Forfar!
92 Aber. south. Dickie cat.

639 Erigeron acris.

1 Cornwall west. Ralfs.
4 Devon north. "Stewart."
5 Som. south. Alexander ms.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west! Borrer cat.
14 east. Hall cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey! Mrs. Tickner sp.
18 Essex south. Varenne ms.
19 north.
20 Herts. Coleman sp.
21 Middlesex. Introduced?
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Skepper.
27 Norfolk east. Cooper sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts.
32 Northton.
33 Gloster east, Prentice cat.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Bagnall ms.
40 Salop. Shawe sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan.
47 Montgomery.

49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman ms.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south.
54 north. Bogg cat.
55 Leicester. Bloxam sp.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. south. Tudor ms.
60 west.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland.
90 Forfar. Croall sp.
(80 Roxburgh; Berw. Proc.)

641 Aster Tripolium.

Counties all the maritime ones, except 35 74 88 92 (extinct) 94 96 105 108 112. Recorded in 68 other maritime counties.

642 Solidago Virgaurea.

Counties all, except 31 42 60 74 78 93 98.

643 Senecio vulgaris.

Counties all, except 42 74 97.

644 Senecio sylvaticus.

Counties all, except 42 57 74 84 93 98 105 108 110 112.

645 Senecio viscosus.

14 *Sussex east.* Carr sp.†
16 Kent east. Ar. Bennett.
19 Essex north. Tempere.†
25 Suffolk east. Varenne sp.
26 west. Skepper cat.
41 Glamorgan. Briggs.
49 Carnarvon. Bab. sp.
63 York s. w. F. A. Lees cat.
66 Durham. Rev. J. Bigge sp.
67 Northumb. Storey sp.
68 Cheviot. Richardson sp.
69 Lake Lanc. F. A. Lees rec.
70 Cumberland. Oliver sp.
73 Kirkcudb. Balfour sp.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick. Border flo.
83 Edinburgh! Balfour cat.
85 Fife. Boswell Syme ms.
87 Perth west. Edin. flo.
90 Forfar. Gardiner flo.
99 Dunbarton. Hooker sp.
N.B. This has been reported for numerous other counties; but the mistake of giving the name of this species to examples of *S. sylvaticus* has been so frequent that I hesitate to enumerate any of the following counties as certain; namely, [1 3 6 7 8 16 17 18 19 23 26 27 28 29 32 33 37 39 48 57 58 59 62 64 76 80 82 91 92 111;] (21). Some of these may be correct.

647 Senecio erucifolius.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som, south. Coleman cat.
6 north. Thwaites cat.
7 Wilts south. Flower cat.

8 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Townsend.
13 Sussex west! Borrer cat.
14 east! Roper cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Purchas ms.
26 west.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Lees rec.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north!
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 Lanc. west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northum. R.B. Bowman sp.
68 Cheviotland.
70 Cumberland?
77 Lanark. Clydesdale flo.
80 Roxburgh. Brotherston rec.
81 Berwick. Border flo.
N.B. Common in South Britain; perhaps the same in England generally; very rare in Scotland.

648 Senecio Jacobæa.

Counties all, except 42 74.

648 Senecio aquaticus.

Counties all, except 35 42 74 93 97.

649 Senecio paludosus.

26 Suffolk west. "Hemsted."
27 or 28 Norf. Eng. Bot. ed. 3.
53 Linc. south. "Banks."
[29 Camb. "Marshall sp." 58 Chester, an error].

651 Cineraria palustris.
(*Senecio palustris*).

25 Suffolk east.
26 west. "Eagle."
27 Norf. east. Paget sp.
28 west. Marshall sp.
29 Cambridge. Relhan.
31 Hunts. Woodward in B. G.
53 Linc. south. "Banks."

[1 or 2 39 41 48 59 or 60 69; all errors ?] Extinct in 29 and 31.

652 Cineraria campestris.
(*Senecio campestris.*)

7 Wilts north. Flower cat.
8 south. Southby sp.
9 Dorset. Pleydell cat.
10 Wight. Stratton sp.
11 Hants south. R. A. Pryor.
12 north.
13 Sussex west. Borrer cat.
14 east. Roper.
17 Surrey. Salmon sp.
19 Essex north.
20 Herts. Fordham sp.
22 Berks.
23 Oxford. Duthie sp.
24 Bucks. Britten "v. sp."
29 Cambridge. Henslow sp.
30 Bedford. Isaac Brown sp.
32 Northton.
33 Gloster east. Roberts ms.
52 Anglesea. John Ball sp.
54 Lincoln north. Britten ms. [70 Robson in Phytol. v. 5].

652*Ciner. spathulæfolia.

52 Anglesea.
65 York n. west. (Backhouse).

655 Inula Helenium.

N.B, This conspicuous plant is recorded in more than sixty counties; although most frequently with some intimations of distrust in its real nativity. Many years ago (when less experienced) I deemed it wild on rough lands in West Cornwall; but in the Isle of Wight, and in Surrey, and even so far north as Ross, it seemed to be obviously an introduced plant. The witnesses for its true nativity are few; the most positive being in general the least reliable of authorities on such a question, for instance, Dr. Bromfield. There are some real exceptions however, for Mr. Baker declares it native in North Yorkshire; and Mr. Mansell-Pleydell thinks that such may be the case in Dorset. It has certainly been introduced into most of its counties; possibly not so into all of them; but I find their due allotment impracticable.

656 Inula Conyza.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks. Britten cat.

23 Oxford. Harris sp.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west.
27 Norfolk east. Stock cat.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford! Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Lees sp.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. R. Brown.
52 Anglesea. Robinson cat.
54 Linc. n. F. A. Lees rec.
55 Leicester. Bloxam ms.
56 Notts.
57 Derby!
59 Lanc. south.
60 west. Simpson sp.
62 York n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
69 Westmoreland!
(66 67, on ballast). [89].

657 Inula crithmoides.

1 Corn. west. Cunnack cat.
2 east. Goulding sp.
3 Devon south.
6 Som. north. Collins ms.
9 Dorset. Rev. H. E. Fox sp.
10 Wight. More & Stratton.
11 Hants south. Notcutt cat.
13 Sussex west. Gibson sp.
15 Kent east. French sp.
18 Essex south. Varenne ms.
19 north. Syme sp.
34 Gloster west. Cooper sp.
41 Glamorgan.
44 Carmarthen? "One plant."
45 Pembroke. Stables sp.
49 Carnarvon? Robinson cat.
52 Anglesea. J.E. Bowman sp.
73 Kirkcudbright.
74 Wigton. G. Macnab sp.
[25 27; extinct or errors].

658 Inula dysenterica.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge.

30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 west ! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford ! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
47 Montgomery. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south.
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat,
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
74 Wigton.
81 Berwick.
82 Haddington. Syme sp.
86 Stirling. J. B. Balf. ms.
00 Clyde-isles. "Landsb."
01 Cantire. Balfour cat.
2 Eb. south. Balfour sp.

659 Inula Pulicaria.

1 Corn. w. Ralfs. "extinct."
8 Wilts south. Bell sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Bromf. ms.
12 north !
13 Sussex west ! Borrer cat.
15 Kent e. G. E. Smith cat.
17 Surrey ! Coleman ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex ! Gibson ms.
22 Berks.
23 Oxford.
25 Suffolk east ? "Crabbe."
27 Norfolk east.
29 Cambridge.
30 Bedford.
31 Hunts. Newbould cat.
36 Hereford. "rarely."
37 Worcester. More ms.
38 Warwick. Extinct ?
47 Montgomery. (J. E. Vize).
55 Leicester ?
[Somerset. York].

660 Bellis perennis.

Counties all, except 74.

661 Chrysanthemum segetum.

Counties all, except 42 78 79 98.

662 Chrys. Leucanthemum.

Counties all, except 42 46 74 97 107 110; doubtless to be found in every county.

663 Pyrethrum, or **Chrys. Parthenium.**

Counties all, except 49 54 60 71 to 75 93 97 98 101 to 105 107 108 110 to 112. Almost always now recorded as a more or less distrusted native; especially so in the more northern counties.

664 Chrys. Tanacetum. (*T. vulgare*).

Counties all, except 42 46 (51) 69 74 78 84 97 98 99 103 105. Native and frequent in South Britain. It is so designated in the 'Botany of North Yorkshire' and in the 'New Flora of Northumberland and Durham.' Unquestioned also in the Floras of the Clyde and Forth; but at best it is one of the doubtfully indigenous plants in Scotland.

665 Pyreth., or **Matricaria,** or **Chrysanth. inodorum.**

Counties all, except 42 74 80; doubtless does occur in all. The *Pyrethrum maritimum* is usually, if not always, represented by a maritime state of *inodorum*. It has been found in districts 1 2 3 5 or 6 9 10 11 13 18 28 41 45 46 52 58 59 61 62 66 to 77 81 83 90 to 104 106 109 to 112.

666 Matricaria, or **Chrys. Chamomilla.**

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Twining sp.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight? More excl. list.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Fryer.
32 Northton. Notcutt cat.
33 Gloster east.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
47 Montgomery. (J. E. Vize).
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.

53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Coleman cat.†
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n.w. R.B. Bowman sp.
66 Durham. R. B. Bowman sp.
67 Northum. R.B. Bowman sp.
70 Cumberland.
(75 77 80 83 85 86 91 97). [10 110 111]. Liable to a confusion with *Anthemis Cotula*.

667 Anthemis nobilis.

1 Corn. west!
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Baker cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
27 Norfolk east.
29 Cambridge.
35 Monmouth. Conway cat.
37 Worcester. E. Lees sp.
38 Warwick. Bree ms.
39 Stafford.
40 Salop.
41 Glamorgan?
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. "plentifully."
52 Anglesea. "not rare."
55 Leicester.
56 Notts.
59 Lanc. south. "Wilson."
62 York n. east. Baker cat.
66 Durham. New flo.
00 Clyde-isles. Galt ms.
02 Eb. south. Balfour sp.
04 north. Lawson cat.
(51 79 81 109 111).

668 Anthemis arvensis.

2 Corn. east. Briggs cat.†
3 Devon south. Briggs cat.†
5 Som. south. Coleman cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Baker ms.
13 Sussex west. Baker ms.
14 east.
16 Kent west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks!
23 Oxford. Syme sp.
24 Bucks. More ms.
25 Suffolk east.

26 Suffolk west. Skepper cat.
27 Norfolk east. Mann sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
36 Hereford.
37 Worcester. (E. Lees).
38 Warwick. Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
54 Lincoln north. Allen rec.
55 Leicester. Bloxam cat.
56 Notts. Bidwell sp.
58 Chester. Gordon sp.
59 Lanc. south.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
67 Northumberland.
68 Cheviotland.
70 Cumberland. Baker cat.
77 Lanark. Hennedy cat.†
78 Peebles. Brotherston cat.
80 Roxburgh.
81 Berwick. Syme sp.
82 Haddington. Balfour cat.
83 Edinburgh! Syme sp.
84 Linlithgow. Balfour cat.
85 Fife.
87 Perth west. Syme sp.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. "Cruickshank."
92 Aber. south. Roy ms.
95 Elgin. Gordon sp.†
96 Easterness. Stables cat.
09 Caithness. Nicolson cat.

N.B. Apparently there is frequent confusion between this plant and *Cotula;* for instance, specimens of the latter came to my hands labelled as *arvensis* from Worcestershire and Middlesex.

669 Anthemis Cotula.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north!
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 north!
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west!
35 Monmouth. Ley rec.

36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Britten.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
52 Anglesea.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. Dugdale sp.
59 Lanc. s. F. M. Webb cat.
60 west! Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northum. R. B. Bowman sp.
68 Cheviotland.
70 Cumberland. "reported."
77 Lanark. Hennedy cat.†
80 Roxburgh.
82 Haddington. Macnab sp.
83 Edinburgh.
85 Fife. Gilbert Macnab sp.
88 Perth mid. (F. B. White).
99 Dunbarton. Hooker sp.

[90 111 112]. It would seem an error to include this abundant weed of England among the plants "not common," if we failed to notice its rarity in Scotland; where, indeed, it is rather a casual than a true colonist.

670 Achillea Ptarmica.

Counties all, except 5 15 42 74 100. Not very common; though likely to occur in every county.

671 Achillea Millefolium.

Counties all, except 42 74. One of the most common and most widely diffused of our native plants.

675 Campanula rotundifolia.

Counties all, except 31 42 74 105 111. Apparently absent from Orkney; and recorded in the Shetland Flora for a single locality only.

676 Campanula patula.

6 Som. north. Flower sp.
7 Wilts north. Preston ms.
8 south. Miss Bell sp.
9 Dorset?
11 Hants s.? "Robinson."
12 north. Salmon sp.
13 Sussex w. G. E. Smith ms.
16 Kent west. Holmes.
17 Surrey. Ellis sp.
34 Gloster west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Ch. Bab. ms.
40 Salop. Bidwell sp.
41 Glamorgan?
42 Brecon. Gibson ms.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Berkeley ms.
62 York n. east. Baker cat.
63 s. west.

64 York m. west.
66 Durham ?
69 Westmoreland ?
(3 18 19 20 24 27 29 ; introduced, or partly errors ?)

677 Camp. Rapunculus.

N.B. The only locality in which I have seen this plant, is the long-recorded one of Esher and Hersham; around these two villages the plant is to be seen yearly in several spots, varying in place and quantity from year to year. Perhaps not well established in any other county, although reported for the following :— (1 5 12 13 16 to 22 24 25 27 28 29 32 36 37 38 39 49 50 52 56 61 62 63 66 85).

678 Campanula latifolia.

17 Surrey. Brewer sp.
20 Herts.
25 Suffolk east ? Stock cat.
27 Norfolk east ?
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Roberts ms.
34 west. Thwaites sp.
35 Monmouth. Babington ms.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Butler sp.
40 Salop.
43 Radnor.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
54 Linc. north. Thompson ms.
55 Leicester. Church. Bab. sp.
56 Notts.
57 Derby ! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northum. R. B. Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland ! Baker cat.
71 Man. J. Macnab ms.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Montgomery ms.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington ?
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Gourlie sp.
87 Perth west. Syme cat.
88 mid. H. M. Balf. sp.
89 east. H. M. Balf. sp.
90 Forfar.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
99 Dunbarton. Hooker sp.
02 Eb. south. Balfour cat.†
[1 or 2 8 11 21 23 ; mostly errors through giving this name to *Trachelium*].

679 Camp. rapunculoides.

N.B. This is an alien, by nearly

general assent, but it seems to have become fairly well established in some counties; in others it is met with simply as a casual escape from gardens, in which it readily becomes a troublesome weed. My collected notes show localities reported in these counties:—(9 11 17 21 23 30 33 34 37 38 55 56 58 62 63 64 67 82 83 85 89 90 92).

680 Camp. Trachelium.

2 Corn. east. Briggs cat.*
3 Devon south.
4 north!
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east.
15 Kent e. G. E. Smith cat.
16 west! Sansom sp.
17 Surrey! Ellis sp.
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Miss Bell sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
35 Monmouth. Gibson ms.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. R. Brown.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
60 Lanc. west. Linton cat.
62 York n. east. "Spruce."
69 Westmoreland. Gibson ms.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
82 Haddington.
83 Edinburgh? Lloyd sp.
85 Fife. Robertson sp.
(68 86). [99 error for 86].

681 Campanula glomerata.

5 Som. s. F. A. Lees rec.
6 north! Collins ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Trevelyan sp.
10 Wight! Miss Bell sp.
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex w. Borrer cat. co.
14 east. Hall cat.
16 Kent west. Dennes sp.
17 Surrey! John Ellis sp.
18 Essex south.
19 north.

20 Herts. Coleman cat.
21 Middlesex. Harris herb.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
26 Suffolk west. Skepper ms.
28 Norf. west. Miss Bell ms.
29 Cambridge. Babington cat.
30 Bedford. S. Foster sp.
32 Northton.
33 Gloster east. Buckman sp.
37 Worcester.
38 Warwick.
40 Salop.
41 Glamorgan.
53 Linc. south ! Bloxam ms.
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Ley sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland !
70 Cumberland.
82 Haddington. Balfour cat.
85 Fife ! Boswell Syme sp.
90 Forfar. Croall sp.
91 Kincard. Mrs. Dickson cat.

683 Campanula hederacea.
(*Wahlenbergia hederacea*).

1 Corn. west ! Cunnack cat.
2 east. Pascoe cat.
3 Devon south ! Briggs cat.
4 north ! Clark ms.
5 Som. south. Coleman cat.
6 north.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.
12 north. Ellis ms.
13 Sussex west.
14 east. Coleman sp.
16 Kent west. Tonb. flo.
17 Surrey. Salmon sp.
18 Essex south. Freeman sp.
22 Berks. "Bagley woods."
33 Gloster east. Roberts ms.
34 west. Purchas ms.
35 Monmouth. Conway sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Woodward ms.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Gordon sp.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
47 Montgomery.
48 Merioneth. Gibson sp.
49 Carnarv. J. E. Bowman ms.
50 Denbigh ? Faun. Grust.
58 Chester.
59 Lanc. s. F. M. Webb cat.
63 York s. west. Leyland sp.
64 m. west ?
71 Man. Jowett sp.
75 Ayr. Landsborough bot.
76 Renfrew. Hook Scot.
98 Argyle. Clydesdale flo.

684 Campanula hybrida.
(*Specularia hybrida*).

1 Corn. w. Miss Warren ms.
2 east. Briggs cat.†
3 Devon south. Briggs cat.†
5 Som. south. Coleman cat.
6 north. Collins ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.

10 Wight. More cat.
11 Hants south. Towns.
12 Hants north. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Trevelyan sp.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Casual?
22 Berks. Miss Bell ms.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Bunbury sp.
27 Norf. east. Bell sp.
28 west.
29 Cambridge. Henslow sp.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west?
36 Hereford. Purchas cat.†
38 Warwick. Leefe sp.
39 Stafford.
40 Salop.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
55 Leicester.
57 Derby.
61 York s. east.
62 n. east. "Ibbotson."
63 s. west.
64 m. west. Baker sp.
65 n. west.
66 Durham. Norman cat.

(58 68 82 85, casual; and scarcely a true colonist in some other of the more northerly counties).

685 Phyteuma orbiculare.

7 Wilts north. Flower cat.
8 south. Flower sp.
9 Dorset. Pleydell, "certain."
11 Hants south.
12 north.
13 Sussex west! Crotch sp.
14 east! Hall cat.
15 or 16 Kent. "Beacon Hill."
17 Surrey! Ellis sp.

[21 63; require verification].

686 Phyteuma spicatum.

14 Sussex east. Miss Hall sp. "Abounds in woods far from any habitation"; Miss Hall. (38 88).

687 Jasione montana.

Counties all, with many exceptions, especially northward; namely, 6 16 31 33 34 54* 61 68 74 78 80 to 90 92 93 94 96 98 99 103 to 110. Reported from Orkney, and alleged to be "common" in Shetland.

688 Lobelia urens.

3 Devon south. Gutch sp. (Kent, one plant; Rev. J. Dix). Mr. T. B. Flower found it still growing near Axminster, in South Devon, in 1872.

689 Lobelia Dortmanna.

40 Salop. Bloxam ms.
41 Glamorgan. "Dillwyn."
46 Cardigan.
48 Merioneth.
49 Carnarvon! Harris sp.

50 Denbigh. J.E. Bowman ms.
52 Anglesea. Robinson cat.
69 Westmoreland. Baker sp.
70 Cumberland !
72 Dumfries. Cruickshank sp.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
86 Stirling.
88 Perth mid. Worsley cat.
90 Forfar. Balfour sp.
91 Kincardine. Dickie sp.
92 Aber. south !
94 Banff. Gordon ms.
95 Elgin. Gordon sp.
96 Easterness. Stables cat.
97 Westerness. Sadler.
98 Argyle. Trevelyan ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross rec.
04 north. Ch. Bab. sp.
05 Ross west.
06 east. Gordon cat.
08 Suth. west ! Graham sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme ms.
12 Shetland. Tate sp.

690 Erica Tetralix.

Counties all, except 32 33 42 74 78. Is it actually absent from 32 33 ?

690*Erica Watsoni.

1 Cornwall west !
9 Dorset. (Sir J.D.Hooker sp.)

691 Erica ciliaris.

1 Corn. west ! Cunnack sp.
2 east. Pascoe cat.
9 Dorset. Trevelyan sp.

[12 17 ; through some error, probably, although specimens are shown thus localized by their labels].

692 Erica cinerea.

Counties all, except 30 31 33 42 61 74; and it may be really absent from some of the first three.

694 Erica vagans.

1 Corn. west ! Cunnack cat. (3 87). [34 37 41 56 57 67 75 96 98 ; misreported or planted].

695 Calluna vulgaris.

Counties all, except 42 71 74 103 ; doubtless to be seen in all.

696 Menziesia cærulea.

88 Perth mid. Brand sp. Still there in 1866 ; Mr. Frederick Naylor. [110].

698 Azalea procumbens.

(*Loiseleuria procumbens*).

86 Stirling. Hooker sp.
88 Perth mid ! Sadler sp.
89 east.
90 Forfar !
92 Aber. south ! Dickie cat.
94 Banff. Gordon sp.
96 Easterness !
97 Westerness !
98 Argyle.
99 Dunbarton.
04 Eb. north. Gutch sp.
05 Ross west.

06 Ross east. Gordon ms.
08 Suth. west! Graham sp.
11 Ork. Miss Fortescue, 1880.
12 Shetland. Hewitson sp.
[3. C. E. Moore, M.D.].
[85. J. Anderson, D.D.].

699 Andromeda polifolia.

6 Som. north. Trevelyan sp.
28 Norfolk west.
31 Hunts. Berkeley ms.
39 Stafford!
40 Salop. Bloxam ms.
41 Glamorgan.
44 Carmarthen. Jones rec.
46 Cardigan. Lees sp.
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint. Robinson cat.
57 Derby. Church. Bab. sp.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 Lanc. west. Linton cat.
62 York n. east.
63 s. west. O. Moore sp.
64 m. west. Tatham cat.
65 n. west. Extinct?
67 Northumb. Thompson sp.
69 Westmoreland!
70 Cumberland.
72 Dumfries. Balfour sp.
73 Kirkcudbright. Gray cat.
75 Ayr.
76 Renfrew.
77 Lanark. Hennedy cat.
87 Perth west. Bushnan sp.
[3 24. Hants; Eng. Bot. ed. 3; this name was a misprint for Hunts].

700 Arbutus alpina.
(*Arctostaphylos alpina.*)

88 Perth mid?
90 Forfar. Brand.
92 Aber. south.
96 Easterness.
97 Westerness!
06 Ross east. Gordon sp.
08 Suth. west! Graham sp.
09 Caithness. Brown cat.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
[70 103 104 105; errors through mistaking the other species for this one; but 105 seems likely to be correct].

701 Arbutus Uva-ursi.
(*Arctostaphylos Uva-ursi.*)

57 Derby. Whitehead rec.
58 Chester?
62 York n. east?
63 s. west. Leyland sp.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northumb. Winch sp.
69 Westmoreland.
70 Cumberland!
78 Peebles.
81 Berwick.
88 Perth mid. Worsley cat.
89 east! Wight sp.
90 Forfar! G. Macnab sp.
91 Kinc. Mrs. Dickson cat.
92 Aber. south! Dickie sp.
94 Banff. Gordon ms.
95 Elgin. Stables sp.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Church. Bab. ms.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour sp.
03 mid! Ross cat.
04 north. Lawson cat.
05 Ross west.
06 east. Gordon cat.
08 Suth. west!
09 Caith.! Brown Campst. cat.
11 Orkney. Syme sp.

12 Shetland. Tate sp.

703 Vaccinium Myrtillus.

Counties all, except 7 16 19 25 26 28 29 31 32 33 42 53 54 74; in some of these it appears to be really wanting, *ex. gr.* in Suffolk and Cambridge.

704 Vaccinium uliginosum.

66 Durham. G. S Gibson sp.
67 Northumb. Oliver sp.
69 Westmoreland.
70 Cumberland.
88 Perth mid!
90 Forfar! Croall sp.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness! Gordon sp.
97 Westerness!
98 Argyle! Hooker sp.
05 Ross west.
06 east. Gordon ms.
08 Suth. west!
11 Orkney. Syme sp.
12 Shetland.
[49 50 65; unsatisfactory].

705 Vaccinium Vitis-Idæa.

3 Devon south. "Buller."
18 Essex south. Extinct.
35 Monmouth. Ley rec.
36 Hereford.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford! Bagnall ms.
40 Salop. Lees sp.
41 Glamorgan.
42 Brecon. Lees sp.
44 Carmarthen. Motley cat.
48 Merioneth.
49 Carnarvon! Babington ms.
50 Denbigh! J.E. Bowman cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south! Goodlad hb.
60 west.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. w. Tatham cat.
65 n. west.
66 Durham.
67 Northumb. Robertson cat.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh! Balfour cat.
85 Fife. Lawson ms.
86 Stirling. Hooker sp.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. Stables ms.
07 Suth. east!
08 west!
09 Caith. Brown Campst. cat,
10 Hebrides.

12 Shetland.
[6 15; errors or extinct].

706 Vaccinium Oxycoccos.

5 Som. south. Trevelyan ms.
6 north. Collins ms.
10 Wight. More ms. 1869.
12 Hants north. Pamplin ms.
13 Sussex west. Borrer in B.G.
14 east. Coleman cat.
17 Surrey. Salmon sp.
18 Essex south. "French."
25 Suffolk east.
27 Norfolk east. Paget sp.
28 west. Cooper sp.
29 Cambridge. "now lost."
31 Hunts. Newbould cat.
37 Worcester? Extinct?
38 Warwick. Lloyd sp.
39 Stafford! Bagnall ms.
40 Salop. Lees sp.
41 Glamorgan.
42 Brecon.
43 Radnor. E. H. Jones cat.
44 Carmarthen.
46 Cardigan. Atwood ms.
47 Montgomery. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south.
54 north.
56 Notts.
57 Derby. Church. Bab. sp.
58 Chester! J. L. Warren cat.
59 Lanc. south. Ch. Bab. sp.
60 west. Linton cat.
62 York n. east.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west.
66 Durham.
67 Northum. R.B. Bowman sp.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife. Boswell Syme sp.
86 Stirling.
87 Perth west. Syme sp.
88 mid.
90 Forfar! Croall sp.
91 Kincardine.
92 Aber. south! Dickie cat.
94 Banff. John Roy ms.
96 Easterness. Coll. Mor.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
05 Ross west. (Druce).
06 east. "G. Smith."
[4; perhaps by misnomer].

707 Pyrola rotundifolia.

15 Kent e. G. E. Smith cat.
25 Suffolk east. Extinct.
27 Norf. east. Woodward sp.
28 west.
37 Worcester. (E. Lees).
39 Stafford. Douglas sp.
40 Salop.
59 Lanc. south. Hardy sp.
60 west. Simpson sp.
62 York n. east. Baker sp.
65 n. west. Ward sp.
66 Durham. R.B. Bowman sp.
68 Cheviotland. Tate sp.
69 Westmoreland. *arenaria.*
78 Peebles? "Blackie."
85 Fife. Dewar sp.
89 Perth east. Lyon sp.
90 Forfar! Croall sp.
92 Aber. south. Dickie cat.

96 Easterness. Stables sp. [3 13 or 14 23 33 or 34 63 69 70 73 75 77 80 81 83 87 88 111 112; in most of these counties, if not in all of them, the *media* or *minor* has been mistaken for the present rarer species].

708 Pyrola media.

13 Sussex... ? Borrer ms.
37 Worcester. Prentice sp.
38 Warwick.
39 Stafford.
59 Lanc. south. Leyland sp.
62 York n. east.
63 s. west. Leyland sp.
64 m. west. Foggitt.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton ms.
69 Westm. F. A. Lees rec.
70 Cumberland.
73 Kirkcudbright. Gray sp.
75 Ayr. Duncan cat.
77 Lanark ? Hooker sp.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
85 Fife.
87 Perth west. Russell sp.
88 mid. Miller.
90 Forfar ! Brand sp.
91 Kincardine. "sp. seen."
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness ! Stables sp.
97 Westerness !
98 Argyle. (Ross).
03 Eb. mid. Gordon sp.
06 Ross east. Gordon ms.
09 Caith. Brown Campst. cat.
12 Shetland. Edmon. flo. [20 23 24 60; likely errors for *P. minor*].

709 Pyrola minor.

3 Devon south ?
11 Hants south.
14 Sussex east. Roper sp.
15 Kent east. "Mr. Reeves."
17 Surrey ! Ellis sp.
20 Herts.
21 Middlesex.
22 Berks !
23 Oxford. Sandys sp.
24 Bucks. Britten cat.
27 Norfolk east.
28 west.
30 Bedford.
33 Gloster e. H. C. Reader.
34 w. H. C. Reader.
36 Hereford. Purchas ms.
37 Worcester. Prentice sp.
38 Warwick. Kirk sp.
39 Stafford.
40 Salop. Leigton cat.
41 Glamorgan. J. Hooker ms.
49 Carnarvon. Robinson cat.
52 Anglesea. "W. Morris."
54 Linc. n. F. A. Lees rec.
56 Notts.
59 Lanc. south. Whalley sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Trevelyan sp.
68 Cheviotland. Pringle sp.
69 Westmoreland. Ottley hb.
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.

79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
83 Edinburgh ! Balfour cat.
84 Linlithgow.
85 Fife. Lawson ms.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid.
90 Forfar ! Croall sp.
91 Kincardine. Syme cat.
92 Aber. south ! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Westerness !
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Gordon sp.
04 north.
05 Ross west.
06 east. Gordon cat.
08 Suth. west. Horn rec.
N.B. Occasionally misreported as *media* or *rotundifolia*.

710 Pyrola secunda.

35 Monmouth. Ley rec.
65 York n. west. Pinder sp.
68 Cheviotland. Tate ms.
70 Cumberland ! Bab. sp.
72 Dumfries. " Walker."
88 Perth mid. Miller cat.
89 east !
90 Forfar ! Croall sp.
91 Kincardine. Syme ms.
92 Aber. south ! Dickie cat.
94 Banff. Gordon ms.
95 Elgin. Gordon sp.
96 Easterness. Stables sp.
98 Argyle.
04 Eb. north. Lawson cat.
05 Ross west.
06 east. Gordon cat.
[13 64 67 75 76 77].

711 Pyrola uniflora.

88 Perth mid.
89 east.
92 or 93 Aberdeen.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness. "Macgillivray."
06 Ross east. Gordon sp.
07 Suth. east.
10 Hebrides ?
[69 75 90 ; errors ?].
Possibly 88 89 may be one locality, in 88 only.

712 Monotropa Hypopitys.

5 Som. south. Collins ms.
6 north. Dutton sp.
7 Wilts north. Preston ms.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south. Ralfs.
12 north. Pamplin ms.
13 Sussex west.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 w. Pamplin ms.
17 Surrey. Reynolds sp.
18 Essex south.
19 north.
20 Herts. Blow ms.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock sp.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
33 Gloster east. Stephens sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick ?

39 Stafford ?
49 Carnarvon. Robinson cat.
53 or 54 Lincoln ... ?
56 Notts.
58 Chester.
59 Lanc. south. King sp.
61 York s. east.
63 s. west.
64 m. w. " Cramound."
65 n. w. Hebblethwaite.
69 Westmoreland.
93 Aber. north. Dickie ms.
96 Easterness. Stables sp. [41 67; bad authority].

713 Ilex Aquifolium.

Counties all, except 31 42 53 74 78 93 98 99 106 107 109 (110) 111 112. In several of the Highland counties it is reported to be doubtfully indigenous; also in Haddington and Edinburgh. My own notes of 1832 mark it as if seen wild in 97 and 108.

714 Ligustrum vulgare.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 e.! Coleman cat.†
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.†
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.†
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
47 Montgomery. Melvill cat.
48 Merioneth. Bailey rec.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. " sea-coast."
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! not wild.
59 Lanc. s. F. M. Webb cat.†
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham sp.

65 York n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey ms.†
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland! not wild.
72 Dumfries. Gray cat.†
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
88 Perth mid. Miller.†
90 Forfar. Gardiner flo. (81 83 85 86 87 91 92 94 95 100 101 102 105 109; expressly reported as non-indigenous in these counties; the rest will stand on the authorities cited). Certainly indigenous in the chalk districts; perhaps so on other calcareous ground, and on coast cliffs.

715 Fraxinus excelsior.

Counties all, except 74 93 104 107 108 111 112. (85 87 90 91 92 94 95 101 102 109 110; reported uncertainly indigenous in these counties).

716 Vinca minor.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.†
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south?
6 north. Thwaites cat.*
7 Wilts north. Flower cat.*
8 south. Flower cat.*
9 Dorset. Pleydell cat.
10 Wight. More cat.†
11 Hants south. Bromf. cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west. Pamplin ms.
17 Surrey. Indigenous?
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.†
22 Berks.
23 Oxford. Baxter, "wild."
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.†.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Bab. cat.†
30 Bedford. Hillhouse cat.
33 Gloster east. Prentice cat.
34 west. Thwaites.*
36 Hereford. Purchas ms.
37 Worcester. "wild."
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan. Barnard ms.
45 Pembroke. "wild?"
47 Montg. "certainly wild."
49 Carnarvon. Robinson cat.†
52 Anglesea. Robinson cat.†
54 Linc. north. Bogg cat.†
55 Leicester.
56 Notts.
58 Chester. Robinson ms.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.†
63 s. west.
64 m. w. F.A. Lees cat.†
65 n. west. "alien."
66 Durham. "alien."
67 Northumb. "alien."
68 Cheviotland. "alien."
70 Cumberland?

71 Man.
73 Kirkcud. Gray cat. co.*
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.†
81 Berwick. "naturalised."
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.* Lawson.*
90 Forfar. "naturalised."
92 Aber. south. Dickie cat.*
94 Banff.
95 Elgin. Gordon cat.*
03 Mull. Ross cat.*

N.B. I have never seen the Periwinkle in a certainly native state; although seen quasi-wild in many counties. In the above full enumeration of counties both the alternative signs are used, as applied by the botanists quoted, or as suggested by their remarks.

718 Gentiana verna.

65 York n. west.
66 Durham. R. B. Bowman sp.
69 Westmoreland. Todd rec.
70 Cumberland?
[24 61; by misnomers].

719 Gent. Pneumonanthe.

9 Dorset. Pleydell cat.
11 Hants south! Flower sp.
12 north!
13 Sussex west.
14 east. Roper.
17 Surrey!
21 Middlesex?
22 Berks.
25 Suffolk east. Extinct?
27 Norfolk east. Cooper sp.
28 west.
44 Carmarthen. Motley ms.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north.
55 Leicester. Bloxam ms.
56 Notts.
57 Derby.
58 Chester! Miss Beck sp.
59 Lanc. south. Phillips sp.
60 west. Simpson sp.
61 York s. east. Kingsley sp.
62 n. east. Baker cat.
63 s. west.
64 m. west. Fowler rec.
65 n. west.
69 Westmoreland.
70 Cumberland.

720 Gentiana nivalis.

88 Perth mid. Gourlie sp.
90 Forfar! Brand sp.
[97 Boue, in N.B.G.].

721 Gentiana Amarella.

1 Corn. west. Ralfs sp.
2 east.
3 Devon south.
4 north.
5 Som. south. Coleman cat.
6 north! Sawbridge sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex w. J. L. Warren ms.
14 east. Hall cat.
15 Kent east! Wing sp.
16 west. Roper.
17 Surrey! Wood ms.
19 Essex north.
20 Herts. Coleman cat.

21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Bunbury sp.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Hort sp.
36 Hereford. Watkins sp.
37 Worcester. E. Lees sp.
38 Warwick.
39 Stafford!
40 Salop. Bidwell sp.
44 Carmarthen.
45 Pembroke. Babington sp.
48 Merioneth. Britten.
49 Carnarvon.
50 Denbigh. J.E. Bowman cat.
51 Flint.
52 Anglesea. Robinson cat.
53 Lincoln s. Browne rec.
54 n. Thompson ms.
55 Leicester.
56 Notts!
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south. Tudor sp.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. w. R.B. Bowman sp.
66 Durham. R.B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! I. B. Balf. ms.
86 Stirling. Duthie cat.
90 Forfar. Croall sp.
92 Aber. south.
93 north.
95 Elgin. Gordon cat.
02 Eb. south. Balfour sp.
05 Ross west.
08 Suth. west! Campbell sp.
09 Caith! Brown Campst. cat.
11 Orkney. "Miss Boswell."
12 Shetland.

721 Gentiana germanica.

12 Hants n. Mrs. Russell sp.
17 Surrey.
18 or 19 Essex.
20 Herts.
22 Berks.
24 Bucks.
45 Pembroke.
York.

N.B. The above counties are on record for this large-flowered variety; how far correct, and how many others ought to be added, my notes do not show.

722 Gentiana campestris.

1 Corn. west! Cunnack cat.
2 east. Pascoe sp.
3 Devon south. Briggs cat.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! Very rare.
14 Sussex east. Roper.
20 Herts.
22 Berks.
23 Oxford. "Baxter, 1819."
26 Suffolk west.

27 Norfolk east. Woodward sp.
28 west.
30 Bedford.
32 Northton.
37 Worcester. (E. Lees).
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Atwood ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington sp.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint.
52 Anglesea. Robinson cat.
54 Linc. north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby.
58 Chester! J. L. Warren cat.
59 Lanc. south! Tudor sp.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries.
73 Kirkcud. Gray cat. co.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Lawson ms.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar! Gardiner sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Church. Bab. sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Burnett sp.
04 north. Lawson cat.
06 Ross east! Gordon cat.
07 Suth. east!
08 west!
09 Caith.! Brown Campst. cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

[4 12 13 16 17 21 24 33 36; old authorities, not verified; but some of these counties may have been correctly reported]. It is the rarity, and often uncertainty, of this plant in South Britain, which cause it to be included among the "not common" plants; although frequent or even common in North Britain.

723 Cicendia filiformis.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
3 Devon south?
9 Dorset. Pleydell cat.
11 Hants south! Harris sp.
13 Sussex west. Brewer sp.

45 Pembroke. Babington cat.

724 Erythræa Centaurium.

Counties all, except 42 43 74 78 79 86 88 89 91 93 94 97 104 105 107 108 109 111. Rare in Shetland.

724 Erythræa littoralis.

1 Corn. west.
2 east. Pascoe cat.
3 Devon south.
4 north.
6 Som. north. Collins ms.
10 Wight. Error?
14 Sussex east.
25 Suffolk east. Notcutt sp.
41 Glamorgan.
46 Cardigan.
48 Merioneth. (Reeves).
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
51 Flint. Whittaker sp.
52 Anglesea.
58 Chester. J. L. Warren ms.
59 Lanc. south! Rylands sp.
60 west. Linton cat.
67 Northumberland?
68 Cheviotland. Winch sp.
69 Westm. Carrington sp.
70 Cumberland.
72 Dumfries.
74 Wigton. Balfour sp.
75 Ayr.
82 Haddington. Balfour cat.
91 Kincardine.
93 Aber. north?
94 Banff.
95 Elgin?
96 Easterness?
98 Argyle.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour cat.
10 Hebrides.
12 Shetland.

N.B. A dwarfed state of the *Centaurium* is mistaken for this segregrate, which includes two sub-forms besides. I have several specimens of the plant usually labelled "*littoralis*" in Moray, 95 96, but do not feel quite satisfied that they are not simply small states of *Centaurium*. The enumeration of counties must be accepted with caution; especially those left in blank for personal authorities.

724 Erythræa pulchella.

1 Corn. west. Bailey ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south.
6 north. Collins ms.
9 Dorset. Fox sp.
10 Wight! More cat. Ward sp.
11 Hants s. G. E. Smith Corr.
13 Sussex west. Borrer cat.
14 east. Ranking sp.
15 Kent e. G. E. Smith cat.
17 Surrey! Coleman sp.
18 Essex south.
20 Herts. Coleman sp.
25 Suffolk east.
27 Norfolk east. Paget sp.
28 west. Syme.
29 Cambridge. Babington cat.
30 Bedford.
37 Worcester?
41 Glamorgan. Henfrey sp.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan.
48 Merioneth.
49 Carnarvon.

51 Flint.
52 Anglesea. J. E. Bowman sp.
54 Linc. north. Thompson ms.
58 Chester. J. L. Warren ms.
59 Lanc. south. Tudor sp.
60 west. Fielding sp.
61 York s. east.
69 Westmoreland. Foggitt.
72 Dumfries. Cruickshank sp.
82 Haddington. Balfour cat.

724 Erythræa latifolia, Sm.

59 Lanc. south. Tudor sp. [1 2 3 4 9 10 13 14 45 46 48 52 58 66 67 70 97 103; errors through the mistake of transferring the name of Smith's plant to broad-leaved forms of *Centaurium*, not otherwise different]. The true plant of Smith, the segregate with *small* very crowded flowers, I still look upon as simply an abnormal or irregular growth of *Centaurium*, which may chance to occur in other places besides the Lancashire coast.

724*Erythræa capitata.

10 Wight. Townsend sp.

725 Chlora perfoliata.

2 Cornwall east.
3 Devon south. Rogers.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Bromf. sp.
15 Kent east! Trevelyan sp.
16 west! Dennes sp.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. T. B. Blow ms.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Bloxam ms.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen.
45 Pembroke. Purchas ms.
47 Montgomery. (J. E. Vize).
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint! Robinson cat.
53 Linc. south.
54 north! Howitt sp.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south! Ch. Bab. sp.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.

64 York m. w. F. A. Lees cat.
65 n. west.
66 Durham. Robson.†
69 Westmoreland.
[67 70; verification needed].

726 Villarsia nymphæoides.

(*Limnanthemum nymphæoides*).

14 Sussex east. Bromf. sp.
17 Surrey! Looks native in
21 Middlesex! the Thames.
22 Berks. Britten cat.
23 Oxford. Fox sp.
24 Bucks. Britten cat.
28 Norfolk west.
29 Cambridge. Babington cat.
31 Hunts! Newbould cat.
32 Northampton.
(10 18 20 33 37 38 39 56 58 62 67 69 70 77 81 89; probably or certainly introduced into all of these counties; insufficiently vouched in some few of them).

727 Menyanthes trifoliata.

Counties all, except 5 31 42 47 48 74 97 99 107; possibly may be absent from some two or three of these counties.

728 Polemonium cæruleum.

39 Stafford.
57 Derby! Christy sp.
64 York m. west. Tatham sp.
68 Cheviotland. Oliver sp.
69 Westm. Baker bot. n. y.
N.B. Clearly native in the limestone tracts of North England. Long a favourite plant in cottage gardens; and springing freely from its scattered seeds, it gives loose writers the chance to swell their local lists by enumerating it, and often as if a truly wild plant. I do not know that the following enumeration will include only such records, nor whether (if so) it will fully exhaust the series of records of the kind:—(1 3 6 7 8 17 20 21 22 23 32 to 36 38 39 40 49 50 55 58 62 63 65 66 70 to 73 75 77 81 to 87 90 92 94 100 102 109).

729 Convolvulus arvensis.

Counties all, except 42 43 69 72 73 74 78 79 80 84 87 88 89 93 94 97 98 99 101 103 105 108 110 to 112. Abundant in South Britain. Rare and dubiously indigenous in North Britain. (75 77 95 96 100).

730 Convolvulus sepium.

Counties all, except 42 43 47 74 78 79 80 84 to 98 104 to 112. Recorded as an introduced plant in the following additional counties:—(81 85 87 to 90 95 109). Thus, almost general through England; and recorded as a native northward to the Forth and Clyde, and to the south-west extremity of North Britain.

731 Convol. Soldanella.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Towns. cat.
13 Sussex west. Hiern.
14 east. Bloomfield.
15 Kent e.! G. E. Smith cat.
18 Essex south.
19 north. Varenne sp.
25 Suffolk east. Bloomf. cat.
27 Norfolk east. Paget sp.
28 west.
41 Glamorgan. Gutch sp.
44 Carmarthen.
45 Pembroke. Babington cat.
46 Cardigan. Darby ms.
48 Merioneth.
49 Carnarvon. Howitt sp.
52 Anglesea. Robinson cat.
54 Linc. north. Bogg cat.
58 Chester.
59 Lanc. south!
60 west. Syme sp.
61 York s. east.
62 n. east.
66 Durham. R. B. Bowman sp.
69 Westmoreland.
70 Cumberland. Addison sp.
71 Man. Forbes to Brand sp.
74 Wigton. Balfour sp.
75 Ayr ...? to Twynam sp.
82 Haddington?
90 Forfar. "A. Croall."
97 Westerness?
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Islay. Balfour cat.
03 Eb. mid. Ross cat.

732 Cuscuta europæa.

3 Devon s. Tate ms. 1871.
5 Som. south. Collins ms.
6 north. Bab. ms.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More sp.
12 Hants north.
13 Sussex w. J. L. Warren.
14 east. Unwin sp.
17 Surrey! Neve sp.
18 Essex south.
19 north.
20 Herts. S. Lucas sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east.
28 west?
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Wintle ms.
37 Worcester. E. Lees sp.
38 Warwick. Bree ms.
55 Leicester. Bloxam cat.
58 Chester.*
63 York s. west. Roberts rec.

[21 28 39 62 64 72 77 (80) 83 90 92; mostly errors?]. The name *europæa* appears to have been occasionally misapplied to examples of the other species; and thus only recent reports, by really competent botanists, can be satisfactorily relied upon in the case of this present species.

734 Cuscuta Epithymum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.

3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south. Freeman sp.
19 north.
20 Herts.
21 Middlesex.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
34 Gloster west. Thwaites cat.
43 Radnor. E. H. Jones cat.
45 Pembroke.
50 Denbigh.
52 Anglesea. J.E. Bowman ms.
55 Leicester.
56 Notts.
58 Chester.
62 York n. east.
68 Cheviotland.
73 Kirkcudbright?
75 Ayr. Duncan cat.
83 Edinburgh?
[77 "on flax"].

735 Cuscuta Trifolii.

Reported for many counties, from Cornwall to Perth; whether always re-introduced among the seeds of clover, or sometimes latent in the ground, it may be difficult to decide confidently. I have seen it on *Chenopodium urbicum* or *intermedium* in a farm-yard in Surrey.

736 Hyoscyamus niger.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west! Borrer ms.
14 east. Roper.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper.
27 Norfolk east. Babington.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Ch. Bab. ms.
36 Hereford.

37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.†
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon. Robinson cat.†
50 Denbigh! J.E.Bowman cat.
51 Flint. (H. L. Jones rec.)
52 Anglesea! Robinson cat.†
53 Lincoln south. Fowler rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northum. R.B.Bowman sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
75 Ayr. Duncan cat.
76 Renfrew ?
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Balf. & Sad. flo.
86 Stirling. Duthie.
89 Perth east. "W. Gorrie."
90 Forfar. Gardiner flo. (Introduced; Dickie Bot. G. Not a native in the northern counties; J. Roy ms.).

737 Solanum nigrum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.†
3 Devon south.
4 north!
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Coleman cat.†
15 Kent e.! G. E. Smith cat.
16 west
17 Surrey! Groves.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Purchas ms.
26 west. Babington ms.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northampton. Britten.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint! Robinson cat.

52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.†
55 Leicester. Howitt ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. ! F. M. Webb cat.
60 west. Syme sp.
61 York s. east.
62 n. east. "colonist."
63 s. west.
64 m. west.
65 n. west. "colonist."
66 Durham. "colonist."
67 Northumb. "ballast hills."
68 Cheviotland. "colonist."
74 Wigton. Balfour sp. (75 80 81 83 85 98 100; introduced).

738 Solanum Dulcamara.

Counties all, with many exceptions northwards; namely, 42 43 74 78 79 84 (91 to 94) 97 98 99 101 103 104 105 107 to 112. Professor Dickie holds it an introduced plant in counties 91 to 94. Treated as a native in the Flora of Moray; and equally so in the Floras of Clyde and Forth.

738b Solanum miniatum.

15 Kent east. (F. M. Webb).

739 Atropa Belladonna.

7 Wilts north. Flower rec.
11 Hants south. Bromf. ms.
12 north.
13 Sussex west.
15 Kent e. G. E. Smith cat.
16 west. Pamplin ms.
17 Surrey. Brewer sp.
20 Herts. Coleman. sp.
21 Middlesex. Kingsley sp.
22 Berks.
23 Oxford. Christy ms.
24 Bucks. Hurst ms.
26 Suffolk west. Bunbury sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Ch. Bab. ms.
33 Gloster east. Lees sp.
34 west.
35 Monmouth. Varenne ms.
36 Hereford. "native"; Bab.
37 Worcester. (E. Lees).
47 Montgomery. (J. E. Vize).
60 Lanc. west. Fielding ms.
61 York s. east. Parsons rec.
62 n. east. "native."
63 s. west.
64 m. west. Baines sp.
65 n. west. Ward sp.
66 Durham. "denizen."
67 Northumb. "denizen."
68 Cheviotland. "denizen."
69 Westmor. Simpson sp. (2 3 4 5 6 7 8 9 [10] 18 19 27 28 37 38 39 40 41 45 50 51 55 56 57 70 72 75 76 77 81 83 85 86 87 90 95 [98] 103; ill vouched in these counties, or reported there as an uncertain native). This plant possibly may be indigenous in some of the chalk or limestone districts. The roots are long-lasting, and the seedling plants spring up freely in gardens; peculiarities which tend to establish the plant in localities to which it may have been originally carried by human hands. The localities on record for it afford not a few instances

in illustration of the delusive manner in which superficial botanists have endeavoured to palm off the artificial as if genuinely indigenous localities.

740 Verbascum Thapsus.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som, south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north!
13 Sussex west! Borrer cat.
14 east. Coleman cat.†
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.†
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. (Ar. Bennett).
47 Montgomery. (J. E. Vize).
48 Merioneth. Britten.
49 Carnarvon! Robinson cat.
50 Denbigh! J.E.Bowman cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.†
53 Lincoln south Fowler rec.
54 north. Fowler rec.
55 Leicester. Coleman cat.†
56 Notts.
57 Derby! Howitt cat.
58 Chester! J.L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 Lanc. west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. "native.."
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland!
70 Cumberland!
71 Man. Forbes cat. "v.r."
73 Kirkcud. Gray cat. co.
74 Wigton. (McAndrew).
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
81 Bewrick.
82 Haddington.
83 Edinburgh. Balfour cat.
84 Linlithgow. J. B. Balf. ms.
85 Fife. Syme cat.* Lawson.
86 Stirling. Syme sp.
87 Perth west. Syme ms.
88 mid. Miller.

90 Forfar.
92 Aber. south. Dickie cat.*
95 Elgin. Gordon cat.*
96 Easterness. Stables cat.*
00 Clyde-isles. Hennedy cat.
09 Caith. Brown Campst. cat.*

741 Verbascum Lychnitis.

5 Som. south. Bab. in Gaz.
6 north. Bath flo.
13 Sussex west. Borrer ms.
14 east. Roper.
16 Kent west. Syme sp.
17 Surrey. Brewer sp.
20 Herts. R. H. Webb flo.
22 Berks. Britten cat.
37 Worcester. (E. Lees).
39 Staff. Pearce & Fraser rec.
50 Denbigh. J. E. Bowman ms. (1 3 4 5 7 10 21 24 25 26 27 29 33 40 56 65 85 86 88 99; partly misnomers of the species, partly counties into which it has been introduced).

742 Verb. pulverulentum.

25 Suffolk east. Skepper flo.
26 west. Bromfield sp.
27 Norfolk east. Fitt sp.
28 west. Bell sp.
[3 10 12 17 30 56 36 94; introduced or erroneous].

743 Verbascum nigrum.

1 Cornwall west!
2 east. Briggs cat.
3 Devon south.
4 north.
5 Som. south. Collins ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north. Pamplin ms.
13 Sussex west! Baker ms.
14 east. Roper.
16 Kent west! Pamplin ms.
17 Surrey! Ellis ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suff. east. Cooper ms.
26 west. Miss Bell sp.
27 Norfolk east. Stock ms.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton.
33 Gloster east.
34 west. Stephens sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan.
49 Carnarvon. Robinson cat.
53 Linc. s. (E. M. Brown rec.)
55 Leicester. Coleman cat.
56 Notts.
57 Derby. J. E. Bowman ms. (62 63 65 to 68 81 82 83 85).

746 Veronica spicata.

26 Suffolk west. Miss Bell sp.
28 Norfolk west. Wardale.
29 Cambr. Ar. Bennett 1876. 1 3 4 18 33 41 70 111; misnomers? 34 49 51 69; the other segregate only?].

746 Veronica hybrida.

6 Som. north. Error?
34 Gloster west! Thwaites sp.
43 Radnor. Purchas 1852.
47 Montg. J. E. Bowman sp.
48 Merioneth. Butler sp.
49 Carnarvon. Howitt sp.
50 Denbigh. R. Brown.
51 Flint. Griffith.
69 Westm. Rev. G. Pinder ms.

747 Veronica arvensis.

Counties all, except 42 46 74 97 105; doubtless to be found in every county.

748 Veronica verna.

25 Suff. east. Eng. Bot. ed. 3.
26 west. Bunbury sp.
27 Norfolk east. Salmon sp.
28 west. Trimmer flo.
[14 Bot. Gaz. i. 307].
[50 Faunula Grustensis].

749 Veronica triphyllos.

25 Suffolk east.
26 west. Wardale sp.
27 Norfolk east.
28 west. Miss Bell sp.
63 York s. w. "G. E. Smith."
64 m. w. Thompson sp.
[38 Midland Flora].

750 Veronica serpyllifolia.

Counties all, except 42 74 103 105 107; doubtless to be found in every county.

750 Veronica humifusa.

49 Carnarvon. Ley rec.
50 Denbigh.
68 Cheviotland.
69 Westmoreland?
88 Perth mid!
90 Forfar!
92 Aber. south!
96 Easterness!
97 Westerness!
08 Suth. west.

751 Veronica alpina.

86 Stirling. "Ben Lomond."
88 Perth mid. "Ben Lawers."
89 east. (Druce rec.)
90 Forfar! Brand sp.
92 Aber. south!
94 Banff. "Ben Avon."
96 Easterness. "Badenoch."
97 Westerness!

752 Veronica saxatilis.

88 Perth mid! Maughan sp.
89 east.
90 Forfar! Brand sp.
94 Banff. Croall.
97 Westerness. Sadler.
98 Argyle? Dr. Walker.
08 Suth. west?

753 Veronica scutellata.

Counties all, except 6 34 42 46 48 53 60 72 74 78 84 97 99 102 105 110; likely to occur in most of these.

754 Veronica Anagallis.

Counties all, except 43 46 47 48 71 74 78 84 86 88 89 94 97 98 99 103 104 105; likely to occur in several of these counties. Some confusion between this and the

preceding species in the Shetland lists; do both occur there?

755 Veronica Beccabunga.

Counties all, except 74 97 98 105 108; and most likely it may be found in every county. See the preceding.

756 Veronica officinalis.

Counties all, except 42 74 105 107; doubtless it grows in every county.

757 Veronica montana.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Pamplin ms.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
33 Gloster east. Purchas cat.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Church. Bab. sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
49 Carnarvon! Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north. Allen rec.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. Goodlad hb.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey cat.
67 Northumb. Storey sp.
68 Cheviotland. Pringle sp.
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Brand sp.
86 Stirling.

90 Forfar.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
99 Dunbarton?
02 Eb. south. Grieve.
03 mid. Ross cat.
04 north. Lawson cat.

758 Veronica Chamædrys.

Counties all, except 74 105 110. Probably in every county, although it may be that 110, Hebrides, is a real exception to comital generality.

759 Veronica hederifolia.

Counties all, except 42 46 48 60 69 71 74 78 98 100 103 104 105 107 108 110; most likely in all these counties.

760 Veronica agrestis.

Counties all, except 41 42 46 74 84 97 104 105 107 108; likely to be found in every county.

761 Veronica polita.

1 Corn. west!
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 Hants north. Towns. cat.
13 Sussex west! Borrer cat.
14 e.! J.L.Warren ms.
15 Kent east!
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Pryor.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.
41 Glamorgan. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon! Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint! Robinson cat.
52 Anglesea! Robinson cat.
53 Linc. south!
54 north!
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Bloxam ms.
58 Chester! J.L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east.

63 York s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Storey cat.
67 Northum. R.B. Bowman sp.
68 Cheviot. Embleton cat.
70 Cumberland. Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
84 Linlithgow.
85 Fife. Syme cat.
87 Perth west.
90 Forfar.
99 Dunbarton. Hooker sp.
01 Cantire. Balfour cat.
09 Caith. Brown Campst. cat.
11 Orkney. Syme sp.

N.B. This would rank more properly among the "Common plants," unless its apparently few counties of North Britain should turn out to indicate many actual blanks in its areal distribution. It is little more than forty years since the *polita* became separated from the *agrestis* in our local lists; and thus is the former less frequently reported under its distinctive name.

762 Veronica Buxbaumii.

1 Corn. west. Cunnack.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent east! Berkeley ms.
16 west. H. Groves rec.
17 Surrey! Well established.
18 Essex south.
19 north. Varenne cat.
20 Herts. Warner sp.
21 Middlesex. Hind cat.
22 Berks. Boswell Syme sp.
23 Oxford. Borrer ms.
24 Bucks. Britten cat.
25 Suffolk east. Skepper.
26 west. Coleman sp.
27 Norfolk east. Paget sp.
29 Cambridge. Babington cat.
30 Bedford. Pryor.
32 Northton. Britten.
34 Gloster west. Purchas ms.
35 Monmouth. Ley rec.
36 Hereford.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Atwood sp.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. Bailey rec.
54 Lincoln north.
55 Leicester. Bloxam sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west.

65 York n. west. Ward cat.
66 Durham. "colonist."
67 Northum. R. B. Bowman sp.
68 Cheviotland.
69 Westmor. Bailey rec.†
72 Dumfries. Gray cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour sp.
85 Fife. Boswell Syme sp.
87 Perth west.
88 mid. Miller.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
00 Clyde-isles.
09 Caithness. Nicolson cat.

N.B. A colonist in Britain, during the present (middle) half-century, say, 1825—1873; and already met with as frequently, and as well established in tillage fields, as are several others which have been reckoned British plants for a whole century or two. Of course, always reported as an introduced plant.

763 Bartsia alpina.

64 York mid. Tatham sp.
65 north.
66 Durham. Trevelyan sp.
69 Westmoreland.
88 Perth mid. Gourlie sp.
97 Westerness ?
98 Argyle. F. M. Webb rec.
05 Ross... ?

764 Bartsia viscosa.

1 Corn. w.! Miss Warren sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south. Towns.
14 Sussex east. Roper cat.
41 Glamorgan.
44 Camarthen. Jones rec.
49 Carnarvon. Robinson cat.†
58 Chester. J. L. Warren ms.
59 Lanc. south. Bean sp.
60 west. Fielding ms.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
76 Renfrew. Hennedy cat.†
98 Argyle.
99 Dunbarton. Hooker sp.

765 Bartsia Odontites.

Counties all, except 42 74 105 107 112. Perhaps really absent from Shetland, no. 112.

766 Euphrasia officinalis.

Counties all, except 42 74 103 105. No doubt it occurs in every county.

767 Rhinanthus Crista-galli.

Counties all, except 42 74 105 107 109.

767 Rhin. C.-g. major.

14 Sussex east. Borrer ms.
39 Stafford. Douglas cat.
53 Lincoln south. Fowler rec.
54 north. Fowler rec.
55 Leicester.
56 Notts.
61 York s. e. F. A. Lees rec.
62 n. east. Baker cat.

63 York s. west.
64 m. west.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northum. R.B. Bowman sp.
69 Westmoreland.
81 Berwick.
85 Fife. Balfour cat.
90 Forfar. Carnegie sp.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
12 Shetland?
[Cornwall? Gloster?].

768 Melampyrum cristatum.

11 Hants south. Pamplin?
19 Essex north. Gibson sp.
20 Herts.
26 Suffolk west. Bell sp.
28 Norfolk west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Payne sp.
31 Hunts. Bree sp.
32 Northton. Henslow sp.
53 Lincoln south. Fowler.
[24 37 40 66; these four counties require verification].

769 Melampyrum arvense.

10 Wight. More sp.
19 Essex north. Gipson sp.
20 Herts. One locality in flo.*
21 Middlesex. Tempere.*
26 Suffolk west. Skepper flo.*
27 Norfolk east.
28 west. Munford flo.*
[9 33 38 58; four counties needing verification].

770 Melam. pratense.

Counties all, except 31 42 56 71 74 78 98 105 107 112.

771 Melam. sylvaticum.

65 York n. west. Baker sp.
66 Durham.
69 Westmoreland. "Woods."
70 Cumberland. "Woods."
73 Kirkcud. G. Lloyd ms.
75 Ayr. Duncan cat.
80 Roxburgh. "A. Jerdon."
81 Berwick.
88 Perth mid! Stables sp.
89 east. Brand sp.
90 Forfar.
91 Kincardine.
92 Aber. south! Gordon sp.
94 Banff. J. Roy ms.
95 Elgin?
96 Easterness. Stables sp.
99 Dunbarton. Syme!
06 Ross east.
09 Caithness.
3 6 34 35 36 38 40 48 49 50 57 58 62 83 111; these counties have been recorded on authority that is insufficient taking into account the frequent mistake of giving the name *sylvaticum* to examples of *pratense*.

772 Pedicularis palustris.

Counties all, except 6 42 60 74 78 86 99 105.

773 Pedicularis sylvatica.

Counties all, except 42 74 105.

774 Scrophularia nodosa.

Counties all, except 42 74 97 105 107 108 111 112.

775 Scrophularia Balbisii.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs sp.
4 north!
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west! Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east. Bab.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton sp.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman sp.
51 Flint!
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland?
81 Berwick. One locality.
83 Edinburgh?

[76 77 84 85 87 111; require verification; perhaps in all these counties the *Ehrharti* was the plant seen, excepting Orkney likely altogether erroneous].

775 Scrophularia Ehrharti.

14 Sussex east.
21 Middlesex. Extinct.
36 Hereford. Purchas ms.
38 Warwick. Bromwich sp.
39 Stafford.
40 Salop. Babington ms.
60 Lanc. w.? "near Preston."
64 York m. west. Tatham sp.
65 n. west.
70 Cumberland. Baker.
76 Renfrew?
77 Lanark. Hennedy ms.

80 Roxburgh.
81 Berwick. Brotherston rec.
83 Edinburgh. Balfour cat.
84 Linlithgow. Brand sp.
[1 or 2 22 24; dubious].

776 Scroph. Scorodonia.

1 Corn. west! Greenwood sp.
2 east.
3 Devon south. Hore sp.
4 north. Rogers.
[20 "Gough's Camden"].

778 Digitalis purpurea.

Counties all, except 29 31 33 42 53 74 105 107 112; apparently quite absent from some few of these counties, notably Cambridge.

780 Antirrhinum Orontium.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs cat.†
4 north.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Miss Bell sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Bromf. ms.
12 north!
13 Sussex west. Borrer cat.
14 e. J.L. Warren rec.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks! Britten cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. ms.
27 Norfolk east. Bell sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Anderson ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.†
37 Worcester.
39 Stafford.
40 Salop.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
48 Merion. J.E. Bowman ms.
49 Carnarv. J.E. Bowman ms.
50 Denbigh?
52 Anglesea. Robinson cat.
58 Chester. Ward rec.*
62 York n. east.
70 Cumberland.
(65 66 67).

782 Linaria spuria.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs cat.†
4 north. Maw cat.
5 Som. south. Collins ms.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns cat.
13 Sussex west. Borrer cat.
14 east. Trevelyan sp.
15 Kent e. G. E. Smith cat.
16 Kent west.
17 Surrey!
18 Essex south.
19 north. Hall sp.

20 Herts. Coleman sp.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Coleman sp.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton. "Allen sp."
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford.
37 Worcester.
38 Warwick. Bagnall rec.
41 Glamorgan.
45 Pembroke. Babington cat.
53 Linc. south. Fowler rec.
54 north. Thompson ms.
55 Leicester. Kirby flo.
56 Notts. Howitt flo.
[62 63]. (66 67),

783 Linaria Elatine.

1 Corn. west! Bailey sp.
2 east. Briggs cat.
3 Devon south! Briggs cat.†
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Trevelyan sp.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 Essex north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Woodward sp.
28 west. Miss Bell ms.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton! Druce.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Russell sp.
46 Cardigan.
49 Carnarvon. Robinson cat.
50 Denbigh. Bidwell sp.
52 Anglesea. Robinson cat.
53 Linc. s. Lees & Fowler rec.
54 north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
61 York s. east. Webster rec.
62 n. east.
63 s. west.
64 m. w. F. A. Lees cat.†
(58 59 66 67).

784 Linaria repens.

1 Corn. w.! Miss Warren sp.
3 Devon south. Stewart flo.
6 Som. north. Thwaites cat.
10 Wight. More cat.
11 Hants south! Borrer ms.

16 Kent west.
17 Surrey.
20 Herts. Blow ms. 1872.
22 Berks. Britten cat.
23 Oxford. Ayres sp.
24 Bucks. Britten ms. 1873.
30 Bedford. Miss Foster sp.
35 Monmouth. Conway cat.
38 Warwick. "Bromwich."
41 Glamorgan. Collins ms.
42 Brecon. W. Darby ms.
45 Pembroke. Babington sp.
46 Cardigan. Babington sp.
62 York n. east. "denizen."
69 Westmoreland. Borrer ms. (13 44 57 58 65 67 75 83 87 or 88 90 92; on ballast, planted, or otherwise introduced). [27].

785 Linaria vulgaris.

Counties all, but with many exceptions northward; namely, 42 74 78 87 89 93 94 96 97 102 to 112. (91 92). Recorded as "frequent" in Forfar and Moray. Professor Dickie and Mr. Roy concur in deeming it an introduced plant in the intervening counties of Kincardine and Aberdeen.

787 Linaria minor.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
6 Som. north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east. Hall cat.
15 Kent east. Syme ms.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Isaac Brown sp.
21 Middlesex!
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Bloomfield.
27 Norfolk east. Babington.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Church. Bab. sp.
38 Warwick.
39 Stafford. Bagnall ms.
40 Salop.
41 Glamorgan.
43 Brecon. Ley cat.
44 Carmarthen. Jones rec.
50 Denbigh. J. E. Bowman cat.
51 Flint. J. E. Bowman sp.
53 Linc. south. Bloxam sp.
54 north!
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Baker sp.
65 n. west. Leefe sp.
66 Durham. Storey sp.
68 Cheviotland. "colonist."
69 Westmoreland. Lewis.
75 Ayr. Lands. bot.
77 Lanark. Hennedy cat.

80 Roxburgh. Border flo.
81 Berwick. Border flo.
(85. Naturalised on gravel walks in Kinross; Dr. Walker Arnot sp.). Professor De Candolle deems this to be altogether an alien species, introduced into England. Its tendency to grow by road-sides and on uncultivated wastes induced me in Cybele Britannica to accept it as a native plant. Abundant on the chalk in Surrey.

788 Limosella aquatica.

Cornwall ?
5 Som. south. Coleman sp.
6 north ?
Wilts. Southby cat. co.
11 Hants south !
13 Sussex west. Borrer cat.
17 Surrey !
18 Essex south.
20 Herts.
21 Middlesex. Newbould sp.
22 Berks.
23 Oxford.
25 Suffolk east.
26 west. Bunbury sp.
27 Norfolk east. Gibson ms.
28 west. Dr. Lowe.
29 Cambridge. "Henslow."
30 Bedford.
32 Northton. An error ?
34 Gloster west ?
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
51 Flint.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt sp.
58 Chester. Hardy sp.
59 Lanc. south.
62 York n. east ?
63 s. west. Parsons rec.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. Lawson sp.
75 Ayr. Duncan cat.
82 Haddington. Macnab sp.
90 Forfar. "Common."
91 Kincardine. "One locality."
N.B. Seen about 1500 feet near Malham Tarn, Yorkshire, by Dr. F. A. Lees.

789 Sibthorpia europæa.

1 Corn. west ! Bailey ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
14 Sussex east. Bromf. sp.
41 Glamorg. Anna Thomas sp.
44 Carmarthen.
[21 53 69 70; errors probably].

790 Orobanche major "rapum."

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south ! Notcutt cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. Hind sp,
16 west. Pamplin ms.
17 Surrey ! Salmon sp.

18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex?
22 Berks.
23 Oxford. Misnomer?
24 Bucks.
25 Suffolk east.
26 west.
27 Norfolk east. Stock cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
33 Gloster east. Prentice cat.
34 west.
35 Monmouth. Conway cat.
36 Hereford. "Wilmott."
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
48 Merioneth.
49 Carnarvon. Winch ms.
50 Denbigh. J. E. Bowman cat.
52 Anglesea!
55 Leicester.
56 Notts.
57 Derby.
58 Chester.
59 Lanc. south.
62 York n. east.
63 s. west.
64 m. w. Tatham cat.
66 Durham.
67 Northumb. Bigge sp.
68 Cheviot. Embleton sp.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
[Fife. Perth? Ebudes].

791 Orob. caryophyllacea.

15 Kent east. Henfrey sp.
26 Suffolk w.? H. & S. flo.
[3 South Devon; an error].

792 Orobanche elatior.

6 Som. north. Collins ms.
7 Wilts north. Flower cat.
8 south. Miss Bell ms.
9 Dorset. Pleydell cat.
11 Hants s. H. & J. Groves sp.
12 north. Towns. cat.
14 Sussex east.
17 Surrey. Ar. Bennett.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
22 Berks.
23 Oxford.
26 Suffolk west.
27 Norfolk east. Miss Bell sp.
28 west.
29 Cambridge. Coleman sp.
32 Northton. Berkeley ms.
34 Gloster west?
38 Warwick.
39 Stafford.
40 Salop.
41 Glamorgan.
55 Leicester.
62 York n. east.
[Cornwall, Devon, Denbigh, Lincoln, and Argyle might be added to the above list of counties; but the authorities for them are insufficient. And several of those enumerated may also prove to be erroneous].

793 Orobanche minor.

Counties 1 to 29 33 to 36 41 42 44 45 49 50 52 55 59 61 62 64 65 68 (85). These nos. include the

counties on record for "*minor*" in the wider application of the name, that is, to include also *Hederæ*, *Picridis*, and *Eryngii* or *amethystea*.

793 Orobanche eu-minor.

1 Corn. west. Cunnack cat.
2 east. Briggs sp.
3 Devon south. Briggs cat.
7 Wilts north. Miss Bell sp.
8 south. Rogers sp.
9 Dorset?
10 Wight.
11 Hants south! Towns. cat.
12 north. Towns. cat.
13 Sussex w. J. L. Warren cat.
14 east.
15 Kent east. Arth. Bennett.
16 west. Roper.
17 Surrey! Ellis sp.
18 Essex s. E. Twining sp.
20 Herts. Blow.
22 Berks.
23 Oxford.
24 Bucks. Britten.
25 Suffolk east.
27 Norfolk east. Miss Bell sp.
28 west. Miss Bell ms.
29 Cambridge.
42 Brecon.
45 Pembroke. Jones rec.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker sp.
67 Northumberland. Chrisp sp.
85 Fife. Boswell.*

N.B. The above selection of counties takes in those specially reported for *eu-minor*, along with some others reported for *minor* as growing on "clover" or "Crepis." It will thrive on other plants quite well; for instance on the Scarlet Geranium and *Campanula Vidalii*.

793 Orobanche Eryngii.

1 Corn. west. "Mennell."
2 east. Goulding sp.
3 Devon south. Bab. man.
9 Dorset. (Ridley & Fawcett).
14 Sussex e. Mrs. Jones sp.
15 Kent east. Syme sp.

N.B. Imperfectly understood by myself; so that I cannot either confirm or contradict the nomenclature of the "sps." Mr. Borrer doubted the correctness of the name "*amethystea*" applied to the plants of Cornwall; but it is retained in Eng. Bot. edition third.

793*Orobanche Picridis.

10 Wight. Bromfield sp.
15 Kent east. Syme sp.
17 Sur. Wintle rec. "on teazle."
29 Cambridge. Gibson sp.
45 Pembroke. Babington cat.

N.B. This also is imperfectly understood by myself. An *Orobanche* which I find in Surrey, growing on Picris and Crepis, appears to me the same as the *Orobanche minor* often found on clover in the same county.

793*Orobanche Hederæ.

1 Corn. west.
3 Devon south. Borrer ms.
4 north.
6 Som. north. Thwaites cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.

10 Wight. More cat.
15 Kent east. Borrer.
34 Gloster west. Stephens sp.
35 Monmouth. Watkins sp.
41 Glamorgan. Moggridge sp.
42 Brecon.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
49 Carnarvon. Rylands sp.
50 Denbigh. J.E.Bowman ms.
52 Anglesea. (Griffith).
55 Leicester ?

794 Orobanche rubra.

1 Corn. west. Cunnack sp.
41 Glamorgan.
64 York m. west. Windsor.
65 n. west. Ward sp.
74 Wigton. (McAndrew).
85 Fife. Syme cat.
98 Argyle. Gourlie sp.
03 Eb. mid !
04 north.
05 Ross west. Bowman ms.
[16].

795 Orobanche cærulea.

1 Corn. west.
10 Wight. Bromfield sp.
12 Hants north ?
20 Herts. Coleman sp.
22 Berks ? Hurst ms.
27 Norfolk east. Trimen.
35 Monmouth.
41 Glamorgan ? Misnomer ?

797 Lathræa squamaria.

1 Corn. west.
3 Devon south. Abraham ms.
4 north.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south.
9 Dorset.
10 Wight. More cat.
11 Hants south.
13 Sussex west. Weaver sp.
15 Kent e. G. E. Smith cat.
16 west. Christy ms.
17 Surrey !
19 Essex north. Varenne ms.
20 Herts. Blow ms.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
30 Bedford.
32 Northton. Berkeley ms.
33 Gloster east. Roberts ms.
34 west. Ley rec.
35 Monmouth. F. A. Lees rec.
36 Hereford.
37 Worcester E. Lees sp.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan. County ?
47 Montgomery. (Vize).
49 Carnarvon. Robinson cat.
50 Denbigh ! J.E.Bowman cat.
51 Flint. Robinson cat.
53 Lincoln south.
55 Leicester.
56 Notts.
57 Derby. Bloxam ms.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland. Hind sp.
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew.

77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
83 Edinburgh! Lloyd sp.
86 Stirling. Hooker sp.
87 Perth west. Syme cat.
97 Westerness.

798 Verbena officinalis.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.†
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.†
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Blow rec.
32 Northton.
33 Gloster east. Prentice cat.
34 w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. (Ar. Bennett).
47 Montgomery. Ley cat.
48 Merioneth. Miss Barnard.
49 Carnarvon. Gordon ms.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. w. R.B. Bowman sp.
66 Durham.
67 Northumb. Storey sp.
69 Westmoreland.
70 Cumb. Mr. "Benson."
85 *Fife.* "Dr. Parsons."

799 Salvia Verbenaca.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Crotch sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.

13 Sussex west. J. L. Warren.
14 east. Taylor sp.
15 Kent. e. G. E. Smith cat.
16 west.
17 Surrey.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks. Britten cat.
23 Oxford.
24 Bucks.
25 Suffolk east. Notcutt sp.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton.
33 Gloster east. Prentice ms.
34 west. Thwaites cat.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Bree ms.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Bloxam ms.
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester. J. L. Warren ms.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. w. R. B. Bowman ms.
66 Durham.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Tate ms.
81 Berwick.
83 Edinburgh ! Balfour cat.
85 Fife. Boswell Syme sp.
90 Forfar. G. Lawson ms.
06 Ross east. Gordon ms.

800 Salvia pratensis.

15 Kent east. Jeffreys.
16 west. Sansom sp.
23 Oxford. Fox sp. Linton sp. (10 17 26; casually). [13 14 21 22 27 30 32 34 37 40 41 52 57 62; perhaps all of these were erroneous, through misnomers of the preceding species].

801 Lycopus europæus.

Counties all, except 42 47 48 72 74 78 79 81 82 83 88 89 90 92 93 94 99 103 104 105 107 to 112. Thus my records for it fail in three Welsh counties and twenty-three Scottish counties, while they give authorities for it in all the counties of England.

802 Mentha rotundifolia.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Collins ms.
6 north. Bath flo.
7 Wilts north. Flower cat.
9 Dorset. Pleydell "v. sp."
10 Wight ! More cat.
11 Hants south. Pamplin ms.
12 north. Pamplin ms.
13 Sussex west. Borrer ms.†

16 Kent west. Foster, b. g.
17 Surrey. Salmon flo.
18 Essex south. Gibson flo.
19 north. Varenne cat.
20 Herts. Coleman sp. W. flo.*
21 Middx. ? "church-yards."*
24 Bucks. Rayer, in b. g.
25 Suffolk east. Skepper ms.
27 Norfolk east. Trim. flo.
28 west. Trim. flo.
29 Cambridge ? Relhan flo.
32 Northton. Anderson ms.
34 Gloster west. Hort sp.
35 Monmouth. Conway cat.
36 Hereford. Maw sp. P. flo.
37 Worcester. E. Lees sp.
38 Warwick. Bagnall ms.
40 Salop. Leighton flo.
41 Glamorgan. Dillwyn mat.
44 Carmarthen. Motley ms.†
45 Pembroke. Babington cat.
48 Merioneth. Butler sp.
49 Carnarv. J. E. Bowman ms.
52 Anglesea. Robinson cat.
56 Notts. Howitt flo.
57 Derby ? Wood in Phytol.
62 York n. e. ? Robson b. g.
63 s. west. "Inchbald."
64 m. west. Tatham cat.
66 Durham. "native."
67 Northumb. "native?"
68 Cheviotland. "native?"
70 Cumber. Dickinson ms.†
83 Edinburgh. Balfour cat.*
85 Fife. Boswell Syme sp.†
90 Forfar. Gard. flo. extinct.
00 Clyde-isles. Misnomer.

N.B. The round-leaved forms of *sylvestris* are sometimes confused with this plant; and perhaps the same holds true with the *crispa* form of *viridis*. Clearly indigenous in the south-western counties.

802 Mentha alopecuroides.

15 or 16 Kent...? Eng. bot. ed. 3.
17 Surrey. Reeves.†
18 or 19 Essx...? Eng. bot. ed. 3.
27 Norf.... Eng. Bot. ed. 3.†
68 Cheviot. Brotherston rec.†
86 Stirling. Duthie sp.
88 Perth mid. Bab. ed. 6.
00 Arran. Bab. Man. ed. 6.

N.B. Perhaps an escape from cultivation. And further a troublesome plant from the topographical view, through being so intermediate between *rotundifolia* and *sylvestris*, that its affinity to either is viewed differently by our best describers.

803 Mentha sylvestris.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs sp.*
4 north.
6 Som. north.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
12 Hants north.
13 Sussex west. Borrer cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey.
18 Essex south.
19 north. Varenne sp.
21 Middlesex.
22 Berks.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Coleman sp.
30 Bedford.
32 Northton. Notcutt cat.
34 Gloster west. Watkins sp.
35 Monmouth. Conway cat.

36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford.
40 Salop.
41 Glamorgan. Knight sp.
42 Brecon.
43 Radnor.
47 Montgomery.
50 Denbigh. J. E. Bowman sp.
51 Flint.
54 Linc. north.
55 Leicester. Howitt ms.
56 Notts.
57 Derby. Howitt cat.
62 York n. east.
63 s. west.
64 m. west.
65 n. west.
69 Westmoreland. Melvill.
70 Cumberland.
81 Berwick.
82 Haddington.
83 Edinburgh.
89 Perth east. Syme.
90 Forfar.
95 Elgin. "J. B." sp.†
96 Easterness.
99 Dunbarton.

[10 20].

[88 100 *M. alopecuroides*]. This is often seen near old mansions and farm houses, apparently the relict of former culture. I have seen it quasi-wild in several counties, from Devon and Surrey to Derby and Lincoln; but always in situations where its true nativity was doubtful at best.

804 Mentha viridis.

N.B. Well established in many places, especially in mountain dales and glens. Thus in Scotland, large patches of it mark the sites where cottages formerly stood, but have been destroyed in the process of re-converting the land into wastes for game. Mr. Baker designates it a "denizen" in the provinces of Humber and Tyne; Dr. Lees and Mr. Tatham deem it truly wild in West Yorkshire.

805 Mentha piperita.

1 Corn. west! Watson sp.
2 east. Briggs cat.
3 Devon south. Banker sp.
5 Som. south. Coleman cat.
6 north.
8 Wilts south.
9 Dorset. Pleydell "v. sp."
13 Sussex west.
17 Surrey. Eng. Bot. ed. 3.
18 Essex south.
19 north. Varenne cat.†
20 Herts.
21 Middlesex. Kingsley sp.
22 Berks.
25 Suffolk east.
26 west.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Coleman ms.
33 Gloster east. Prentice cat.
34 west. Ley sp.
35 Monmouth. Conway cat.
36 Hereford. Bennett sp.
37 Worcester.
38 Warwick. Bromwich sp.
39 Stafford.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
46 Cardigan. Atwood sp.

47 Montgom. J.E. Bowman cat.
48 Merioneth. (W. W. Reeves).
54 Lincoln n. F. A. Lees rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby.
58 Chester. J.L. Warren ms.*
59 Lanc. south. Heys sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Baker ms.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
70 Cumberland.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Syme sp.
85 Fife. Dewar sp.
90 Forfar. Carnegie sp.
91 Kincardine. Syme sp.
92 Aber. south.
99 Dunbarton. Hooker sp. [10].

N.B. Certainly not indigenous in several of the counties here enumerated. Two forms are distinguished in English Botany, edition third, *officinalis* and *vulgaris;* the former being the spiked variety cultivated for use, and occasionally found established near gardens, &c. This doubleness of form, and local uncertainties of nativity, throw distrust on several of the counties here enumerated. The subcapitate form from Thirsk "*vulgaris*" appears to my own eyes extremely near the Kew Garden plant which is distributed as *citrata* by Mr. Baker; and the same with the specimens above indicated from West Cornwall and South Devon.

806 Mentha aquatica.
(*M. hirsuta*).

Counties all, except 42 48 72 73 74 87 97 99 105 107 108 110 112.

806*Mentha pubescens.

1 Cornwall west. Ralfs.
33 Gloster east. Ley.

807 Mentha sativa.

Counties all, except 25 31 43 46 51 60 61 71 74 78 79 86 88 89 90 92 93 94 96 to 99 103 to 112. As thus topographed, it must be understood to include the miscellaneous segregates grouped under the aggregate name *sativa* in the 'London Catalogue of British Plants,' edition of 1867. Their recorded localities cannot be segregately assigned with any confidence or completeness.

808 Mentha arvensis.

Counties all, except 31 42 46 71 to 74 78 96 97 104 105 107 108 110 112; in nearly all of these it may be expected to occur, though 110 and 112, Hebrides and Shetland, may perhaps be

real exceptions to a county generality. 106 Gordon cat. 109 Brown Campst. cat. 111 Syme cat.

809 Mentha Pulegium.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs.
5 or 6 Som. Southby cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. J. L. Warren.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Many localities.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex. Dennes ms.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Extinct?
31 Hunts.
32 Northton.
33 Gloster east.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Extinct?
41 Glamorgan.
45 Pembroke. Jones rec.
51 Flint. J. E. Bowman ms.
52 Anglesea. Robinson cat.
55 Leicester.
56 Notts.
57 Derby?
58 Chester. J. E. Bowman sp.
61 York s. east. Parsons rec.
62 n. east.
64 m. west. Leefe sp.
66 Durham.
69 Westmoreland.
70 Cumberland.
71 Man. "scarce."
75 Ayr. Duncan cat.
81 Berwick. One locality.

(83 85 109; and perhaps only a garden escape in some other of the counties named).

810 Thymus Serpyllum.

Counties all, except 31 42 60 74 104.

811 Origanum vulgare.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
6 Som. north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! J. E. Gray sp.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east! Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey! Mrs. Tickner sp.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex?
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.

26 Suffolk west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas sp.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Borrer sp.
46 Cardigan.
47 Montgomery. Britten.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea! Robinson cat.
53 Linc. south. Browne rec.
54 north! Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south.
60 w. J. L. Warren ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F.A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick. "frequent."
83 Edinburgh. Brand sp.
84 Linlithgow. Maughan sp.
85 Fife. Boswell Syme sp.
86 Stirling. Croall cat.
87 Perth west!
88 mid.
90 Forfar.
91 Kinc. Mrs. Dickson ms.
92 Aber. south. Dickie sp.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.†
02 Eb. south. Balfour cat.
09 Caith. Brown Campst. cat.

812 Calamintha Acinos.

2 Corn. east. Pascoe cat.
3 Devon south. Briggs cat.†
4 north. Maw cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e.! G. E. Smith cat.
16 west! Roper.
17 Surrey!
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex. Harris herb.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Bloomfield.
27 Norfolk east. Stock cat.
28 west. Notcutt cat.

29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Lees sp.
36 Hereford.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
45 Pembroke.
47 Montgomery. Bloxam sp.
49 Carnarvon. Winch ms.
50 Denbigh. J.E.Bowman cat.
53 Linc. south!
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby! J. E. Bowman sp.
58 Chester.
59 Lanc. south!
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Tate ms.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Prof. Balfour sp.
77 Lanark. "Dunlop."
80 Roxb. Brotherston rec.
81 Berwick. One locality.
82 Haddington. Balfour sp.
83 Edinburgh. Balfour cat.†
85 Fife. I. B. Balfour ms.
90 Forfar. G. Macnab sp.
91 Kincardine.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.

813 Calamintha Nepeta.

16 Kent west! Sandys sp.
19 Essex north. Varenne sp.
20 Herts. Isaac Brown sp.
23 Oxford. Dr. Bidwell sp.
29 Cambridge. Babington cat.
34 Gloster west. Thwaites sp.
45 Pembroke. Babington cat.
64 York m. west. F. A. Lees.

N.B. The *menthifolia* form of *Calamintha officinalis* has been so frequently mistaken for *Nepeta* that I can cite here none of the recorded counties besides the two certified by Professor Babington and those from which I have actually received specimens of the true plant. The other recorded counties are 1 2 3 4 6 7 8 9 14 15 17 18 22 24 25 26 27 28 33 37 40 41 50 54 55 56 57 62 65 66 67 71; some of these likely to be correct, the majority as likely to be erroneous.

814 Calamintha officinalis.

(*C. menthifolia*).

1 Corn. west! Bailey ms.
2 east. Pascoe sp.
3 Devon south. Briggs sp.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Hort sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Atkins sp.
14 east. Roper.

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15 Kent east. Syme sp.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Harris herb.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Mrs. Farquharson.
44 Carmarthen.
45 Pembroke. Babington cat.
47 Montgomery. Melvill.
49 Carnarvon. Babington sp.
50 Denbigh! J.E. Bowman cat.
51 Flint. (Dr. Parsons rec.).
52 Anglesea. Robinson cat.
54 Linc. north. Thompson ms.
55 Leicester.
56 Notts.
58 Chester. Fisher sp.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. west.
65 n. west. Ward sp.
66 Durham? "Extinct."
69 Westmoreland. Oliver sp.
70 Cumberland?
(68 87) or [68 87].

814*Calamintha sylvatica.

4 Devon south. Towns. ms.
10 Wight. Bromfield sp.
12 Hants north. Spicer.†
N.B. This is the *C. officinalis* of various continental botanists; that to which we give the same name being the *menthifolia* or *ascendens*, one or both. See the note under 813 *Cal. Nepeta.*

815 Calamin. Clinopodium.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east! Ranking sp.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.

29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Fryer.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 w. ! Thwaites cat.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. (W. W. Reeves).
49 Carnarvon. Bailey rec.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robert Brown.
52 Anglesea.
53 Linc. south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. w. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland !
70 Cumberland. Baker cat.
75 Ayr ? "near Busby."
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh ! Lloyd sp.
84 Linlithgow. Balfour cat.
85 Fife. Syme ms. 1870.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid ! Worsley cat.
89 east !
90 Forfar.
91 Kinc. "Miss Boswell."
92 Aber. south. Dickie cat.
94 Banff. J. Roy ms.
95 Elgin. Gordon cat.

N.B. This frequent English plant is unreported for 23 of the Scottish counties, more than one-half, according to my collected notes.

817 Melittis Melissophyllum.

1 Corn. w. Miss Warren sp.
2 east. Pascoe ms.
3 Devon south ! Goulding sp.
4 north ! Maw cat.
5 Som. south. Coleman sp.
11 Hants south. Bromfield ms.
13 Sussex west. Christy sp.
37 Worcester. (E. Lees).
46 Cardigan. Atwood sp.

[8 9 17 33 41 45 55 ; possibly two or three of these counties are correct, although all need verification].

818 Teucrium Scorodonia.

Counties all, except 31 42 54 74 78 98 105 107 109 112.

819 Teucrium Scordium.

4 Devon north. Russell sp.
22 Berks.
23 Oxford.
26 Suffolk west.
27 Norfolk east.

28 Norfolk west.
29 Cambridge. Babington cat.
32 Northton.
54 Linc. north.
65 York n. w. R.B. Bowman sp.

820 Teucrium Botrys.

17 Surrey. Gibson, Ingall sps.
Native in Surrey; Borrer.

822 Ajuga reptans.

Counties all, except 42 74 78 97 98 101 105 108 110.

823 Ajuga pyramidalis.

69 Westm. Backhouse ms.
96 Easterness?
97 Westerness? "Dr. Hope."
98 Argyle. "Carmichael."
06 Ross east. Gordon ms.
07 Suth. east. Grant.
08 west. Oliver sp.
09 Caithness. Syme!
10 Hebrides. Bowman ms.
11 Orkney. Syme sp.
[49 Carnarvon?]

824 Ajuga Chamæpitys.

12 Hants north. Pamplin ms.
16 Kent west. Palmer sp.
17 Surrey. Brewer sp.
18 Essex south.
20 Herts. Wallis sp. Blow ms.
29 Cambridge. Fordham sp.
30 Bedford. Isaac Brown sp.
32 Northton?
[7 10 14 33 or 34 45 47; insufficiently vouched, and perhaps mostly errors].

825 Ballota nigra.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north!
13 Sussex west! Borrer cat.
14 east!
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 w. Babington ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.

51 Flint! Brand sp.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton sp.
70 Cumber. "T. Benson."
75 Ayr. Landsborough Bot.
76 Renfrew? Glott. flo.
77 Lanark. Hennedy cat.†
80 Roxburgh. Duncan cat.
81 Berwick. Border flo.
82 Haddington?
83 Edinburgh. Syme sp.
85 Fife? B. & S. flo.
92 *Aber. south.* Dickie cat.†
95 *Elgin.* "Dr. Innes."

N.B. This vulgar weed of South Britain becomes rare in Scotland, and scarcely occurs in North Britain unless as an introduced casual.

825 Ballota ruderalis.

23 Oxford. Newbould sp.
36 Hereford. (Bab. Man. ed. 8.).
67 Northumb. Storey sp.

[10 21 27 29 40; all probably misnomers]. (Casual in 33 or 34). Intermediate forms in Middlesex (Rev. James Harris) and Hants (J. C. Mansel-Pleydell, Esq.), and East and West Sussex, but nearer to *fœtida*, of the two.

827 Lamium Galeobdolon.

1 Corn. west. "H. S. herb."
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Trevelyan sp.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! E. Wood ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Coleman ms.
26 west. Skepper cat.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Ley cat.

44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh! J.E.Bowman sp.
51 Flint. Robinson cat.
53 Linc. s. F. A. Lees rec.
54 north. Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J.L. Warren cat.
59 Lanc. south! Goodlad hb.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
70 Cumberland.
(82 83 85). [98].

828 Lamium album.

Counties all, with many exceptions northward, namely, 42 46 48 52 71 74 88 91 to 94 (95 96) 97 to 112. Lowe reports it in 111 Orkney, and Nicolson in 109 Caithness.

830 Lamium amplexicaule.

Counties all, except 35 41 to 44 46 47 48 50 60 69 70 73 74 78 89 97 98 99 102 104 105 112; no doubt simply overlooked in nearly all of these. But for some of the northern counties the *intermedium* and *amplexicaule* may not have been clearly kept apart.

830 Lamium intermedium.

60 Lanc. west. Melvill.
68 Cheviotland.
72 Dumfries. Cruickshank sp.
74 Wigton.
75 Ayr. Gourlie sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
82 Haddington.
83 Edinburgh! Tyacke sp.
85 Fife. Dewar sp.
90 Forfar.
92 Aber. south. "not native."
93 north. Syme ms.
95 Elgin.
98 Argyle. Ch. Bab. ms.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
09 Caithness. Grant cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
[10 40 49; insufficiently vouched].

831 Lamium purpureum.

Counties all, except 35 42 74 97 105 107. Doubtless it occurs in every county.

831 Lamium incisum.

1 Corn. west. "Hore."
2 east. Briggs
3 Devon south. Briggs sp.†
5 Som. south. "W. H."
7 Wilts north. Preston ms.
8 south. Flower flo.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.

15 Kent e. G. E. Smith cat.
16 west. Sandys sp.
17 Surrey!
18 Essex south. Gibson flo.
19 north. Varenne cat.
20 Herts. Blow. R. H. Webb.
21 Middlesex. T. & D. flo.
22 Berks. Britten cat.
23 Oxford. "Baxter."
25 Suffolk east. Coleman ms.
26 w. Bromfield ms.
27 Norf. east. Woodward ms.
28 west. Notcutt sp.
29 Cambridge. Babington flo.
31 Hunts. Newbould ms.
36 Hereford. Purchas sp.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
41 Glamorgan. Dillwyn mat.
44 Carmarthen. Motley cat.
45 Pembroke. Tenby flo.
49 Carnarvon! Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
55 Leicester. Ch. Bab. sp.
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west. Melvill.
61 York s. east. Supplement.
62 n. east. Baker cat.
63 s. west. Supplement.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. New flo.
67 Northumberland. New flo.
68 Cheviotland. Tate cat.
69 Westmoreland!
71 Man. Forbes cat. "common."
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
80 Roxb. Brotherston rec.
81 Berwick. Border flo.
83 Edinburgh! Balfour sp.
84 Linlithgow. B. & S. flo.
85 Fife. Dewar, Syme sps.
86 Stirling. Croall rec.
90 Forfar. Gardiner flo.
92 Aber. south. Dickie cat.
94 Banff. "frequent."
95 Elgin. Gordon cat.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
10 Hebrides. B. & B. cat.
12 Shetland. Tate sp.

N.B. The above enumeration of counties is to be received with some distrust. The leaves of *purpureum* vary much in outline and cutting, occasionally simulating those of *incisum* very closely; while in turn this latter is occasionally confused with *amplexicaule* and even *intermedium*.

832 Galeopsis Ladanum.

1 Cornwall west.
2 east.
3 Devon south. Briggs cat.†
5 Som. south. Collins ms.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east! Coleman cat.
15 Kent east! Syme sp.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.

22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. (W. W. Reeves).
49 Carnarvon. Robinson cat.
50 Denbigh. Bailey rec.
51 Flint. Miss Atwood ms.
52 Anglesea ? Robinson cat.
53 Lincoln south !
54 north !
55 Leicester. Howitt sp.
56 Notts.
57 Derby ! Howitt sp.
58 Chester ! J. L. Warren ms.
59 Lanc. south.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland. Oliver sp.
70 Cumberland.
75 Ayr. Boswell Syme ms.
80 Roxb. Brotherston rec.*
82 Haddington. Carnegie sp.
83 Edinburgh. Lloyd sp.
85 Fife. Dewar sp.
86 Stirling. Duthie sp.
92 Aber. south. Dickie ms.†
95 Elgin. Gordon sp.†
04 Eb. north ? Lawson cat.
[111 Orkney ; Lowe's list].

833 Galeopsis ochroleuca.

19 Essex north. Varenne sp.
49 Carnarvon. Crotch sp.
54 Lincoln n. Fowler rec.†
56 Notts.
61 York s. east.
62 n. east.
63 s. w. Leyland ms.†
66 Durham. R. B. Bowman sp.
[38 59 64 ; counties requiring verification].

834 Galeopsis Tetrahit.

Counties all, except 42 73 74 105 107. No doubt it is to be found in every county.

835 Galeopsis versicolor.

1 Corn. west. Cunnack.
3 Devon south. Briggs cat.†
13 Sussex west. Borrer ms.
14 east. Coleman cat.
17 Surrey ! †
18 Essex south.
19 north. Varenne cat.†
20 Herts.
21 Middlesex. Hind cat.†
23 Oxford.
24 Bucks.
25 Suffolk east.
27 Norfolk east. Stock cat.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Kippist sp.
36 Hereford. Purchas ms.†

37 Worcester. (E. Lees).
38 Warwick. Bloxam ms.
39 Stafford. Douglas cat.†
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.
47 Montgomery. Ley cat.
48 Merioneth. Ralfs.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
53 Linc. south ! Kippist ms.
54 north ! Howitt ms.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh ! Lloyd sp.
85 Fife. Boswell Syme sp.
86 Stirling. Duthie sp.
87 Perth west. Brand sp.
88 mid ! Worsley cat.
89 east !
90 Forfar !
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 Aber. north. Gordon ms.
94 Banff. Gordon ms.
96 Easterness.
97 Westerness ! Ch. Bab. ms.
98 Argyle. Church. Bab. ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid.
05 Ross west. Ch. Bab. ms.
06 east. Gordon cat.

836 Betonica officinalis.

(*Stachys Betonica*).

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north !
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex west ! Borrer cat.
14 east ! Coleman cat.
15 Kent e. G. E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Bloomf. cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.

31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 w. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Baker sp.
66 Durham. Norman cat.
67 Northumb. Storey cat.
68 Cheviotland. Embleton sp.
69 Westmoreland!
70 Cumberland! Baker cat.
73 Kirkcudbright. Gray cat.
76 Renfrew? "reported."
77 Lanark. Hennedy cat.†
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow? "Sibbald."
85 Fife. I. B. Balfour ms.
89 Perth east. Stables sp.
04 Eb. north? Lawson cat.

N.B. It will be observed that my compiled notes give only ten counties of Scotland, as habitats for this common plant of England; and two or three out of the ten seem to need verification. It is one, among many other similar examples, showing how much the general vegetation changes in a northerly course, through the thinning out and gradual disappearance of plants plentiful and conspicuously characteristic in South Britain. A comital enumeration brings out that striking fact much more clearly than a provincial arrangement under eighteen divisions only. The county series of this plant is here shown to be continuous for England proper, apart from Wales.

837 Stachys palustris.

Counties all, except 35 42 43 74 98 105 107 108.

837 Stachys ambigua.

1 Corn. west! Curnow sp.
2 east. Briggs.
3 Devon south. Briggs sp.
9 Dorset. Syme sp. Pleydell.
13 Sussex west. Borrer cat.
14 east. Baker.
16 Kent west. Syme sp.
17 Surrey!
19 Essex north. Varenne sp.
32 Northton!

35 Monmouth. Ley rec.
37 Worcester. (E. Lees).
38 Warwick. Bromwich sp.
42 Brecon. Ley rec.
48 Merioneth. Hunt sp.
57 Derby. Bailey rec.
59 Lanc. south. Windsor sp.
63 York s. west. (Johnson rec.).
64 m. w. F. A. Lees rec.
66 Durham. Storey sp.
67 Northumb. New flo.
68 Cheviotland. New flo.
69 Westmoreland !
70 Cumberland. Baker cat.
80 Roxburgh. Brotherston rec.
87 Perth west. Dewar sp.
09 Caithness. Nicolson cat.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
N.B. Reported also in 6 10 20 21 23 27 28 29 33 35 36 39 40 41 45 50 55 58 62 69 71 73 76 77 81 82 83 92 96 98 100 101 104 105; but the mistake of applying the name *ambigua* to examples of *palustris* with shortly stalked leaves, having been so frequent, it seems safer to look upon all the counties represented by those numbers as requiring confirmation.

838 Stachys sylvatica.

Counties all, except 72 74 97 98 105 107.

839 Stachys germanica.

12 Hants north. Spicer sp.
16 Kent west. Syme sp.
23 Oxford. Fox sp. 1872. (15). [1 or 2 3 22 27 or 28 30 53 54 57 62; all needing verification, and perhaps mostly erroneous].

840 Stachys arvensis.

Counties all, except 30 42 47 53 60 72 73 74 78 79 86 88 97 98 99 105 107 109 110 112 (111).

841 Glechoma hederacea.

(*Nepeta Glechoma*).

Counties all, except 42 74 78 87 89 99 104 105 107 108 110 112 (111).

842 Nepeta Cataria.

1 Corn. west !
2 east. Briggs cat.†
3 Devon south.
4 north.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Stratton.
11 Hants south.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e.! G. E. Smith cat.
16 west !
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Verdun ms.
22 Berks. Mrs. Russell sp.
23 Oxford. Rev. E. Fox sp.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Bab. ms.
27 Norfolk east. Cooper sp.

28 Norfolk west. Miss Bell sp.
29 Cambridge.
30 Bedford. Hillhouse cat.
31 Hunts. Blow rec.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint!
52 Anglesea.
54 Linc. north! An escape?
55 Leicester. Coleman cat.
56 Notts.
58 Chester! An escape?
61 York s. east. Parsons rec.
62 n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. "native."
67 Northumb. Storey sp.
(77 81 87 107 112; most likely introduced).

843 Marrubium vulgare.

1 Corn. west.
2 east. Briggs cat.*
3 Devon south. Briggs cat.*
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Pamplin ms.
12 north. Towns. cat.
13 Sussex west. Borrer cat.†
14 Sussex east. Roper.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey.
18 Essex south. Gibson flo.*
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford. Beesley ms.†
24 Bucks. Britten cat.*
25 Suffolk east.
26 west. Henslow ms.*
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Druce rec.*
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. "Wilmott.*"
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Bloxam ms.
50 Denbigh. J. E. Bowman cat.
51 Flint. (H. L. Jones).
52 Anglesea. Robinson cat.
53 Lincoln south. Bloxam sp.
54 north.
55 Leicester.
58 Chester. J. L. Warren cat.*
59 Lanc. s. F. M. Webb cat.*
62 York n. east. "native."
63 s. west.
64 m. west. "native."
65 n. west. Ward cat.†
66 Durham. "native."
67 Northumb. "native."
68 Cheviotland. Tate cat.
71 Man. Forbes cat.†
75 Ayr. Landsborough bot.*

80 Roxb. Brotherston rec.*
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Syme sp.*
95 Elgin. Gordon cat.*

N.B. The enumeration of counties is here given in full, without an attempt, vain as it would prove, to eliminate those in which the plant has been seen only as a casual or as an established escape. The alternative signs are resorted to, for indicating intimations of less (†) or more (*) distrust. Though seen by myself in many counties, from Devon to Edinburgh, I have doubts as to its real wildness in any of them ; possibly the Isle of Wight ought to be made an exception, for the Horehound looks native on the chalk there. In Surrey, seen near houses and on village 'greens.'

844 Prunella vulgaris.

Counties all, except 42 74 105 ; but doubtless plentiful in every county.

845 Scutellaria galericulata.

Counties all, except 35 42 43 46 47 48 74 78 82 85 87 89 92 105 107 108 109 111 112. 110 Isle of Harris ; Balfour and Babington.

846 Scutellaria minor.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north. Briggs.
5 Som. south. Collins ms.
6 north.
7 Wilts north.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Towns. cat.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west ! Trevelyan sp.
17 Surrey !
18 Essex south. Varenne ms.
19 north.
20 Herts.
21 Middlesex. Hind cat.
22 Berks !
24 Bucks. Britten cat.
26 Suffolk west. Bromfield sp.
27 Norfolk east. Notcutt ms.
35 Monmouth. Watkins sp.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Atwood sp.
48 Merioneth. Gibson ms.
49 Carnarvon ! Robinson cat.
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
55 Leicester.
57 Derby.
58 Chester. Merrick sp.

59 Lanc. south.
61 York s. east. Parsons rec.
62 n. east.
63 s. west.
64 m. w. F. A. Lees cat.
66 Durham.
69 Westmoreland.
70 Cumberland. Addison sp.
71 Man.
73 Kirkcudbright. Lloyd ms.
74 Wigton. Balfour sp.
75 Ayr. "Miss Baird."
86 Stirling. Christie.
97 Westerness. Miller.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy sp.
03 Eb. mid. Ross rec.
[77].

847 Myosotis palustris.

1 Corn. west? Cunnack cat.
2 east? Briggs cat.
3 Devon south! Briggs sp.
4 north! Maw cat.
5 Som. south?
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 Suffolk w. Babington ms.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. H. L. Jones cat.
47 Montgomery. (Vize).
48 Merioneth. Britten.
49 Carnarvon. Robinson cat.
50 Denbigh. Bailey rec.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west!
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland. Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.

73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Syme sp.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme sp.
86 Stirling. Croall cat.
87 Perth west ?
89 east !
90 Forfar. Sturrock.
92 Aber. south. "*strigulosa*."
00 Clyde-isles. Hennedy cat.
03 Eb. mid ? Ross cat.
09 Caithness ? Nicolson cat.
11 Orkney. Boswell. *strigulosa*.

[93 94 95 96 106 to 108 110 112; in most of these northern counties, if not in all of them, the *repens* has been recorded under the name of *palustris*. Dr. Boswell Syme's specimens, from Edinburgh and Fife, are named *strigulosa* by himself; they diverge slightly from the type, as seen in the south of England, in form of calyx as well as in their appressed pubescence. It is the former confusion between *repens* and *palustris*, which induces me to detail their counties here; the latter is a rare plant in North Britain, where the former prevails].

848 Myosotis repens.

1 Corn. west. Cunnack.
2 Corn. east. Briggs.
3 Devon south. Briggs cat.
4 north. Hiern.
5 Som. south. Coleman sp.
6 north.
9 Dorset. Pleydell sp.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north ! Towns. cat.
13 Sussex west ! Borrer cat.
14 east. Roper.
16 Kent west.
17 Surrey !
20 Herts.
21 Middlesex ?
22 Berks !
24 Bucks. Britten cat.
26 Suffolk west ?
27 Norfolk east ?
34 Gloster west. Ley rec.
35 Monmouth. Ley rec.
37 Worcester. F. A. Lees rec.
38 Warwick. Bagnall ms.
39 Stafford.
40 Salop. Jones rec.
41 Glamorgan.
43 Radnor.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Jones rec.
47 Montgom. "C. E. Parker."
48 Merioneth. Britten.
49 Carnarvon. Hiern.
50 Denbigh. Stratton ms.
54 Lincoln n. F. A. Lees rec.
55 Leicester. Coleman cat.
56 Notts ?
57 Derby. Bailey rec.
58 Chester. 'J. L. Warren ms.'
59 Lanc. south. Goodlad sp.
62 York n. east. Baker sp.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Winch sp.

68 Cheviotland.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh! Balfour cat.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west! Syme cat.
88 mid. Miller.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
07 or 108 Sutherland. N. flo.
10 Hebrides.
11 Orkney. Boswell sp.
12 Shetland. Tate sp.

849 Myosotis cæspitosa.

Counties all, except 42 43 46 48 52 56 72 73 74 93 95 96 98 105; in some of these counties likely not distinguished from *palustris*, with which it was combined or confused a half century ago.

850 Myosotis alpestris.

65 York n. w. Backhouse sp.
69 Westmoreland. Baker ms.
88 Perth mid! Hugh Balfour sp.

851 Myosotis sylvatica.

12 Hants north. Borrer ms.
14 Sussex east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey. Newman.
18 Essex south.
19 north. Bentall sp.
20 Herts. Pryor.
25 Suffolk east. Bloomf. cat.
26 west.
27 Norfolk east.
28 west.
33 Gloster east. Prentice cat.
35 Monmouth. Conway cat.
38 Warwick. Kirk cat.
39 Stafford! Douglas sp.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
52 Anglesea.
54 Linc. n. F. A. Lees rec.
55 Leicester.
56 Notts.
57 Derby. Church. Bab. sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
70 Cumberland.
72 Dumfries. Gray cat.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.
81 Berwick.
83 Edinburgh! Syme sp.
90 Forfar.
91 Kincardine.
[3 5 or 6 8 21 29 37 77

92; these counties require verification].

852 Myosotis arvensis.

Counties all, except 73 74 97 105 107; doubtless to be found in every county.

853 Myosotis collina.

Counties all, except 23 35 42 43 46 47 48 51 61 69 70 72 73 74 78 79 80 87 88 89 96 to 112. 109 Caithness? 112 Shetland? Imperfectly recorded, through being so lately distinguished from *arvensis* and *versicolor*.

854 Myosotis versicolor.

Counties all, except 31 41 42 46 48 53 69 74 97 98 99 104 105 107 108 110; likely to occur in all of them, unless the Shetland species should prove to be *collina* only, without *versicolor* also.

855 Lithospermum officinale.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 Hants north. Pamplin ms.
13 Sussex west. Weaver sp.
14 east. Hall cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. Blow ms.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 w. Babington ms.
27 Norfolk east.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. F. A. Lees rec.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Bloxam ms.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denbigh. J. E. Bowman cat.
52 Anglesea.
53 Linc. south. Bloxam ms.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.

65 York n. west. Ward sp.
66 Durham.
68 Cheviotland. "Oliver."
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright. Gray ms.*
74 Wigton. Balfour sp.
76 Renfrew. Montgomery cat.†
77 Lanark. Hennedy cat.†
82 Haddington.
83 Edinburgh!† Balfour cat.
85 Fife. Balfour sp.
87 Perth west. Syme cat.†
88 mid. Syme sp.
90 Forfar. Gardiner sp.
91 Kincardine. "occurs."
95 Elgin. Gordon cat.
96 Easterness?
00 Clyde-isles. Balfour sp.
01 Ross east. Stables sp.

856 Lithosperm. arvense.

Counties all, with many exceptions northward, namely, 41 42 43 46 47 48 60 71 74 79 87 88 89 97 to 105 107 to 112. Hebrides; Balfour and Babington.

857 Lithospermum purpuro-cæruleum.

3 Devon south. Rogers.
5 Som. south?
6 north. Duthie sp.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
26 Suffolk west. "Bergholt."
41 Glamorgan. Moggridge sp.
50 Denbigh. Whittaker sp.
(62 85). [34 36 70].

858 Mertensia maritima.

46 Cardigan?
49 Carnarvon. Howitt sp.
52 Anglesea.
68 Cheviotland.
69 Westm. Miss Hodgson sp.
70 Cumberl. Kingsley sp.
74 Wigton. Balfour sp.
75 Ayr. James Wilson sp.
76 Renfrew. Montgomery cat.
81 Berwick. Johnston ms.
85 Fife. G. Macnab sp.
90 Forfar.
91 Kincardine. Dickie sp.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Westerness.
98 Argyle. Gourlie sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
03 Eb. mid.
06 Ross east. Syme sp.
08 Sutherland west.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
Cornwall, Devon and Hants have also been reported for this plant.

859 Symphytum officinale.

1 Corn. west! Cunnack cat.†
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.

13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent. e. G. E. Smith cat.
16 west.
17 Surrey! Henry Bull sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex!
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Dillwyn ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.*
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
53 Linc. south. Fowler rec.
54 north.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 York m. west. Tatham sp.
65 n. west. Ward cat.†
66 Durham. Norman cat.
67 Northum. R. B. Bowman sp.†
68 Cheviotland.
69 Westmoreland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.*
81 Berwick.
83 Edinburgh. Brand sp.
84 Linlithgow. Balfour cat.†
85 Fife. Dewar sp. Syme sp.
86 Stirling. Croall cat.
87 Perth west. Syme cat.†
89 east. Duthie rec.†
90 Forfar.
00 Clyde-isles. Hennedy cat.
09 Caithness. Nicolson cat.*
(91 92).

860 Symph. tuberosum.

30 Bedford. Miss Foster ms.†
39 Stafford.
48 Merioneth. Pamplin ms.
54 Lincoln north.
61 York s. east. O. A. Moore.
64 m. west. Tatham sp.
69 Westmoreland?
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Boswell Syme sp.
87 Perth west. Syme cat.
90 Forfar. Croall sp.
91 Kincardine. Syme cat.

92 Aber. south. Dickie sp.
93 north. Dickie sp.
94 Banff.
45 Elgin. Gordon cat.†
99 Dunbarton ?
02 Eb. south. Balfour cat. (1 13 17 19 20 21 24 55 89 109). [25 27 29 34 66]. Difficult to distinguish the three categories of habitat in the case of this plant, —indigenous, or introduced, or erroneous; perhaps the county of Bedford, long accepted in botanical books, ought to be transferred from the first to the second, if all the other south-eastern counties are rightly referred to second and third.

"I have always had doubts as to its being really indigenous" (in 91 92). "It used to be grown frequently in cottage gardens." John Roy ms.

862 Lycopsis arvensis.
(*Anchusa arvensis*).

Counties all, except 31 35 42 43 46 47 48 72 74 78 97 98 99 103 105. By reason of the frequent occurrence of this plant on waste ground and road-sides, and in other situations not closely connected with agriculture, it was designated "native" in Cybele Britannica. Professor De Candolle, however, holds it introduced into this island from southern Europe (Geog. Bot. p. 679) and perhaps rightly so.

864 Anchusa sempervirens.

Counties numerous by the records, from Cornwall to Caithness; but usually reported as uncertainly native or certainly introduced. Few botanists, whose opinion is worth anything in answer to such a question, declare it an indigenous plant.

865 Asperugo procumbens.

16 Kent west. E. Edwards.
17 Surrey. Arth. Bennett.*
18 Essex s. "Mr. Quekett!"
25 Suffolk east. Skepper flo.
40 Salop. "Dr. J. Babington."
49 Carnarvon. "Griffith."
68 Cheviotland. Embleton sp.
77 Lanark. Hennedy cat.†
82 Haddington. Maughan sp.†
85 Fife. W. Macnab sp.
90 Forfar. Gardiner sp.
95 Elgin. "Brodie herb."
06 Ross east. Syme sp.
07 Suth. east. Borrer 1808. [6 8 9 14 26 29 37; counties requiring verification]. Scarcely a true native in Britain; rather, a fugitive casual? (17 20 Herts).

866 Cynoglossum officinale.

1 Corn. west. Cunnack cat.
2 east. Briggs.*
3 Devon south. Rogers.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.

11 Hants south ! Towns. cat.
12 north. Towns. cat.
13 Sussex w. J. L. Warren ms.
14 east. Roper cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex !
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge.
30 Bedford.
31 Hunts. Newbould cat.
32 Northampton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Camarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. (Ar. Bennett cat.).
47 Montgomery. Melvill cat.
49 Carnarvon. Robinson cat.
50 Denbigh ! J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south. Bloxam ms.
54 north. Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. T. G. Rylands sp.
58 Chester ! J. L. Warren cat.
59 Lanc. s. ! F. M. Webb cat.
60 Lanc. west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. "rare."
64 m. west. "rare."
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife. Syme cat. "indig."
90 Forfar.
91 Kincardine. Alien ?
(75 77 93 94 96 106).
[111 ; by Lowe's list].

867 Cynog. sylvaticum.

15 Kent east.
16 west.
17 Surrey. Brewer sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middx. Extinct, or error ?
23 Oxford.
27 Norfolk east.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Lees sp.
34 west. Watkins sp.
37 Worcester.
38 Warwick. Kirk sp.
40 Salop. "Miss MacGhie."
(89 90). [14]. And probably some of the counties named should be added to one or other of these categories.

868 Pulmonaria angustifolia.

6 Som. n. ? "Stephens hb."
9 Dorset.
10 Wight. More sp.
11 Hants south. Bromf. sp. (17). [25 51 63].

868 Pulmon. officinalis.

Not indigenous; but reported in about three dozen counties, and usually as an admitted introduction.

869 Echium vulgare.

Counties all, except 42 46 47 48 60 71 to 74 78 79 88 89 97 98 99 101 103 to 105 107 108 111 112. In the Floras of Clydesdale and Moray it is treated as questionably indigenous; and Mr. Roy doubts it being truly native in Aberdeen or Kincardine. Notwithstanding its frequency in England, it thus comes almost into the category of "not common" plants, through being local in Scotland, and dubiously indigenous in North Britain.

870 Ech. plantagineum.

1 Corn. w. Ralfs. Introduced?

872 Pinguicula vulgaris.

3 Devon south.
4 north.
5 or 6 Som. Southby cat.
9 Dorset. Pleydell cat.
11 Hants south. Bromfield.
12 Hants north! Pamplin ms.
20 Herts. Isaac Brown sp.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Pamplin ms.
26 Suffolk west. Bunbury sp.
27 Norfolk east. Stock sp.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Extinct.
33 Gloster east. Prentice ms.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton ms.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
46 Cardigan. Jones cat.
47 Montgomery. Ley cat.
48 Merioneth. Britten.
49 Carnarvon! Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
54 Lincoln north.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester. "Mr. Astley."
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Embleton.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.

75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. G. Lawson cat.
86 Stirling! Duthie cat.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Grieve.
98 Argyle. Balfour sp.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
06 Ross east! Gordon cat.
07 Sutherland east!
08 west!
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.

N. B. This enumeration of counties would make the *Pinguicula* a commoner plant than the *Echium*; and the more so because human agency has tended to lessen the localities for the former, while it has increased those for the latter plant. Of course it is the frequency of this plant in Scotland which balances against its rarity in South England.

873 Pinguicula alpina.

04 Skye. "James Mackay."
06 Ross east. Stables sp.
[111 Orkney; Lowe's list; not confirmed, and perhaps *lusitanica*].

874 Pinguicula lusitanica.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Russell sp.
4 north. Briggs.
5 Som. south. Crotch sp.
6 north?
8 Wilts south. Flower cat.
9 Dorset. Trevelyan sp.
10 Wight. Bromfield.
11 Hants south. Notcutt cat.
71 Man. Forbes to Brand sp.
74 Wigton. (McAndrew).
75 Ayr. Duncan cat.
96 Easterness. Coll. Mor.
97 Westerness. Lloyd sp.
98 Argyle. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
05 Ross west.
06 east. Gordon ms.
07 Suth. east. Campbell sp.
08 west!
09 Caithness. Brown Campst.
10 Hebrides.
11 Orkney. Fortescue.

875 Utricularia vulgaris.

1 Corn. west. Ralfs.

2 Corn. east.
3 Devon south.
4 north.
6 Som. north. Thwaites ms.
7 Wilts north.
8 south.
9 Dorset. Pleydell cat.
10 Wight!
11 Hants south. Notcutt ms.
12 north!
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Extinct?
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton!
33 or 34 Gloster.
36 Hereford. Ley rec.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. s. F. A. Lees & Fowler.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Bloxam sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east. Bloxam ms.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northum. R. B. Bowman sp.
68 Cheviotland.
69 Westmoreland.
70 Cumberland. "Bentall."
72 Dumfries. Gray cat. co.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark?
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife.
90 Forfar. Sturrock.
91 Kincard. "Miss Boswell."
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
06 Ross east. Gordon cat.
10 Hebrides.
11 Orkney. "Miss Boswell."
12 Shetland. "scarce."

N.B. The above enumeration will include *neglecta* also; the counties for it not being yet separable from those which possess the more usual form of *vulgaris* only.

875*Utricularia neglecta.

2 Cornwall east. Ralfs sp.
11 Hnts. s. Wilkinson t. Darwin.
15 Kent east. Blow sp.
17 Surrey. Crespigny rec.
19 Essex north. Varenne.

34 Gloster west. Wintle.

876 Utricularia intermedia.

9 Dorset. Borrer ms.
11 Hants south. "Borrer."
28 Norf. west? Trimmer flo.
67 Northumb. Thompson sp.
69 Westmor. "F. J. A. Hort."
70 Cumberland. Winch. con.
81 Berwick. Border flo.
90 Forfar. Maughan sp.
91 Kincardine. Dickie sp.
92 Aber. south. North. flo.
98 Argyle. "Winch add."
00 Clyde-isles. Hrb. Nicholson.
05 Ross west. Ch. Bab. sp.
07 Suth. east. Graham ex.
08 west. Excurs. 1827.
[Devon Somerset, Bucks, Gloucester, Elgin have also been recorded].

877 Utricularia minor.

1 Corn. west. Cunnack.
2 east. Pascoe cat.
6 Som. north. Withers ms.
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west.
14 east. Hemsley.
15 Kent east. Syme sp.
17 Surrey! Salmon sp.
21 Middlesex. Extinct?
22 Berks. Arth. Bennett.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east. Prentice sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
46 Cardigan.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north.
58 Chester. F. M. Webb sp.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. west. Harrison sp.
64 m. west.
65 n. west.
67 Northumb. Thornhill sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland.
72 Dumfries. Dalzell sp.
73 Kirkcudbright. Gray cat. co.
75 Ayr. Duncan cat.
77 Lanark. Lyon sp.
81 Berwick. (Brotherston).
83 Edinburgh.
85 Fife.
86 Stirling. Croall rec.
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie sp.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness. Brichan sp.
97 Westerness. Sadler.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
"Repack." Ch. Bab. sp.
08 Suth. west. Graham exc.
10 Hebrides. "N. Uist."
11 Orkney. Halcro Johnston.
[8 and 56; needing confirmation, and some others also].

878 Primula vulgaris.

Counties all, except 41 42 74 78 105 107; doubtless to be found in every county.

879 Primula elatior!

19 Essex north. Doubleday sp.
26 Suffolk west. J. Ray sp.
29 Cambridge. Babington cat.
30 Bedford.

880 Primula veris.

(*P. officinalis*).

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs cat.
4 north. Hiern.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Coleman ms.
26 w. Babington ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 w. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Melvill cat.
49 Carnarvon! Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south! Bloxam cat.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 Lanc. west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham sp.
65 n. west. Ward cat.
66 Durham. R.B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
73 Kirkcudbright. Gray ms.
75 Ayr. J. P. Duncan cat.
80 Roxb. James Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife! G. Lawson ms.

86 Stirling. Croall cat.
88 Perth mid ?
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff. Dickie Guide.
08 Suth. west !
09 Caith. ! Brown Campst. cat.† (76 77 87 95 96 100 111 ; mentioned as an introduced plant in these counties). Certainly a rare plant in Scotland ; but it appeared to me to be genuinely indigenous in Fife, Aberdeen, Sutherland, and perhaps Caithness.

881 Primula farinosa.

60 Lanc. west. Simpson sp.
62 York n. east. Baker sp.
63 s. west ?
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. J. E. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland.
69 Westmoreland !
70 Cumberland.
78 Peebles. G. Macnab sp. [2 16 26 49 51 83 ; misreported counties].

882 Primula scotica.

94 Banff ?
08 Suth. west ! Oliver sp.
09 Caith. ! Brown Campst. cat.
11 Orkney. Syme sp.

884 Trientalis europæa.

62 York n. east. Mudd sp.
63 s. west. Leyland sp.
64 York m. west. Parsons rec.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland.
72 Dumfries. "A. Hutton."
75 Ayr. Duncan cat.
77 Lanark. "Mr. Soubki."
79 Selkirk. Farquharson cat.
81 Berwick.
83 Edinburgh. Balfour sp.
85 Fife. Boswell Syme sp.
86 Stirling. G. Macnab sp.
87 Perth west.
88 mid ! Miller cat.
89 east.
90 Forfar !
91 Kinc. Mrs. Dickson ms.
92 Aber. south ! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness ! Stables sp.
97 Westerness. Ch. Bab. ms.
00 Clyde-isles.
06 Ross east.
07 Sutherland east. Grant.
09 Caith. Brown Campst. cat.
11 Orkney ?
12 Shetland. Hewitson sp.

885 Hottonia palustris.

5 Som. south. Collins ms.
6 north. Thwaites cat.
8 Wilts south.
9 Dorset.
12 Hants n. J. L. Warren.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
17 Surrey !
18 Essex south.
19 north. Varenne cat.

20 Herts. Coleman cat.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock sp.
26 west. Skepper.
27 Norfolk east. Paget sp.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northton ! Druce.
33 or 34 Gloster. Lees sp.
37 Worcester.
38 Warwick. Bree ms.
39 Stafford.
40 Salop. J. E. Bowman sp.
49 Carnarvon. Babington sp.
50 Denbigh. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Bloxam ms.
54 north. Bogg cat.
55 Leicester. Bloxam cat.†
56 Notts.
57 Derby. Church. Bab. sp.
58 Chester. J. E. Bowman ms.
59 Lanc. s. ! F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Storey sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Syme sp. 1844.
69 Westmoreland.
[90 Forfar ; not reliable].

886 Lysimachia vulgaris.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Towns. cat.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne ms.
20 Herts.
21 Middlesex !
22 Berks ! Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northampton. Druce.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. "Davis" sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea.
53 Linc. south !
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby. J. Whittaker.
58 Chester. J. L. Warren cat.

59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F.A. Lees cat.
65 n. west.
66 Durham. R.B. Bowman sp.
67 Northumb. "Fairlamb!"
69 Westmoreland.
70 Cumberland.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
81 Berwick. Extirpated?
83 Edinburgh. Balfour cat.†
84 Linlithgow.
85 Fife. Syme sp. & cat.†
86 Stirling. "Mr. Learmouth."
87 Perth west.
88 mid. Miller cat.
91 Kincardine.
92 Aber. south. Dickie cat.
99 Dunbarton! Maughan sp.
03 Eb. mid. Ross cat.

887 Lysimach. thyrsiflora.

56 Notts. Berkeley ms.
59 Lanc. south. Alcock.*
62 York n. east. Baker cat.
63 s. west?
65 n. west. Baker bot.
75 Ayr. Duncan cat.
77 Lanark. Gourlie sp. H. cat.†
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
86 Stirling. Christie sp.
89 Perth e. Hay, exc. club.
90 Forfar. Croall sp.
99 Dunbarton. Craig Christie. (6 7 planted by Sole, and perhaps extinct). [20 52 58 61 63 64 70 91 92; insufficiently vouched, and mostly errrors].

888 Lysim. Nummularia.

3 Devon south. Briggs cat.†
4 north. Maw cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west! Trevelyan sp.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Morley sp.
34 west. Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. (J. E. Vize).
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.

53 Linc. south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Buckland sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. w. Ward sp.
66 Durham. "native."
67 Northumb. Extinct ?
69 Westmoreland.
70 Cumberland. Baker cat.
72 Dumfries.
75 Ayr. Duncan cat.
76 Renfrew. Balfour sp.
77 Lanark. Hennedy cat.†
79 Selkirk. Farquharson cat.
86 Stirling. W. Galt sp.

(10 80 81 83 85 90 100; Uncertainly indigenous in Scotland, and also in England beyond York and Durham. By the Border Flora and the Edinbugh Flora it is an introduced plant in the East Lowlands).

889 Lysimachia nemorum.

Counties all, except 31 42 46 53 72 74 103 105 107 110 112. A frequent plant, but not quite a common one. Perhaps to be found in every county from Cornwall to Caithness, unless that of Huntingdon should be a real exception; and it is said to be rare or very local in Bedford and Cambridge.

890 Anagallis arvensis.

Counties all, except 42 74 78 79 89 93 97 98 102 to 112. Scarcely entitled to a higher predial grade in North Britain than that of a casual colonist. *Anagallis cærulea* has the like character for Britain generally; see Comp. Cyb. Brit. p. 550.

891 Anagallis tenella.

Counties all, except 16 21 23 42 43 48 74 78 79 80 86 to 90 97 99 104 to 108; some of which may be real exceptions to a comital generality.

892 Centunculus minimus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
23 Oxford. J. L. Warren!
24 Bucks.
25 Suffolk east.
26 west ?
27 Norfolk east.
28 west.
29 Cambridge.

30 Bedford.
36 Hereford.
37 Worcester.
38 Warwick. Bagnall.
40 Salop. (Sergeantson).
41 Glamorgan. Henfrey ms.
45 Pembroke. H. L. Jones rec.
46 Cardigan. Gibson ms.
48 Merioneth. Miss Worsley.
49 Carnarvon. Robinson cat.
50 Denbigh.
52 Anglesea. J.E. Bowman sp.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. w. G. E. Smith rec.
64 m. w. Twining sp.
69 Westmoreland.
70 Cumberland.
71 Man. Jowett to Howitt sp.
72 Dumfries. Gray cat co.
75 Ayr. G. Macnab sp.
76 Renfrew.
77 Lanark ?
81 Berwick. Embleton ms.
85 Kinross. Balfour ms.
88 Perth mid. Worsley sp.
90 Forfar.
92 Aber. south.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
00 Clyde-isles. Hennedy cat.

893 Samolus Valerandi.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! Miss Twining sp.
11 Hants south ! Notcutt cat.
13 Sussex west ! Borrer cat.
14 east. Hall cat.
15 Kent. e. ! G. E. Smith cat.
16 west.
17 Surrey. Salmon in flo.
18 Essex south.
19 north. Varenne cat.
20 Herts. S. Lucas sp.
21 Middlesex.
22 Berks.
23 Oxford.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east. Babington.
28 west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northampton. Blow.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford. Fraser cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth.
49 Carnarv. J.E. Bowman ms.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north ! Bogg cat.
55 Leicester. Bloxam ms.
56 Notts.
57 Derby. Bloxam ms.
58 Chester ! J. L. Warren cat.
59 Lanc. south. Ch. Bab. sp.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Abbott rec.

65 York n. west.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
84 Linlithgow.
85 Fife.
95 Elgin. Gordon cat.
98 Argyle. Gordon ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Lawson cat.

894 Glaux maritima.

Counties all the maritime, except 21 74 77 89 105 107; in most of these it likely occurs.

895 Armeria maritima.

Counties all the maritime, except 21 35 74 77 89 105 107; likely to occur in nearly all of these counties. Inland on mountains.

897 Statice Limonium.

Cornwall ?
3 Devon south.
4 north! Maw cat.
6 Som. north Thwaites sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt sp.
13 Sussex west.
14 east. Hall cat.
15 Kent e. G. E. Smith sp.
16 west! Syme sp.
18 Essex south. Syme sp.
19 north. Varenne cat.
25 Suffolk east. Purchas cat.
28 Norfolk west. Miss Bell sp.
29 Cambridge. Babington cat.
34 Gloster west ?
41 Glamorgan.
44 Carmarthen. Motley cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Butler sp.
54 north ! Howitt sp.
58 Chester ! T. B. Hall sp.
60 Lanc. west. Syme sp.
62 York n. east. Baker sp.
66 Durham. Norman cat.
68 Cheviot. Embleton sp.
69 Westmoreland. Oliver ms.
70 Cumberland.
72 Dumfries. Gray cat. co.
73 Kirkcudbright. Lloyd ms.
74 Wigton. Eng. Bot. ed. 3.
85 Fife. " J. W. Brown."
[112 Shetland Flora].

898 Statice bahusiensis.

10 Wight. More cat.
11 Hants south. Notcutt sp.
13 Sussex west. Holman sp.
15 Kent east. Brent sp.
16 west. Syme sp.
18 Essex south.
19 north. Syme sp.
25 Suffolk east.
28 Norfolk west.
45 Pembroke. Babington cat.
48 Merioneth. Miss Worsley sp.

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60 Lanc. west. Syme sp.
62 York n. east.
68 Cheviotland. "Maclagan!"
69 Westmoreland. Oliver sp.
70 Cumberland. Heysham sp.
72 Dumfries. Cruickshank sp.
73 Kirkcudb. Eng. Bot. ed. 3.
74 Wigton. Gourlie sp.
[3 4 Rav. Flora of Devon].

899 Statice binervosa.

1 Corn. west. Cunnack cat.
2 east. Hore sp.
3 Devon south. Hooker sp.
4 north. Maw cat.
5 Som. north. Flower sp.
9 Dorset. Boswell Syme sp.
14 Sussex east. Norman sp.
15 Kent east! Trevelyan sp.
27 Norfolk e. Babington sp.
28 west. Notcutt sp.
41 Glamorgan. Ball sp.
44 Carmarthen. Jones rec.
45 Pembroke. Lees sp.
48 Merioneth.
49 Carnarvon. Howitt sp.
52 Anglesea. J.E. Bowman sp.
54 Linc. north. C. J. Wild sp.
58 Chester. J. L. Warren sp.
60 Lanc. west. Syme sp.
69 L. Lanc. Preston.
70 Cumberland. Brady sp.
74 Wigton. Balfour sp.
[10 13; counties needing confirmation].

900 Statice caspia.

25 Suffolk east. Babington.
27 Norfolk east. Babington sp.
28 west. Notcutt sp.
29 Cambridge.
53 Linc. south?
54 n. "Banks herb."
[6 15 70; misnomers].

901 Plantago major.

Counties all, except 74 105.

902 Plantago media.

1 Corn. west.
2 east. Briggs cat.†
3 Devon south. Briggs cat.†
4 north.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east! Roper cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms
26 w. Babington ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.

41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Purchas ms.
47 Montgomery. (Vize).
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint!
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester!
59 Lanc. s. F. M. Webb cat.†
60 west!
61 York s. east.
62 n. east. Baker cat.
63 s. west. F.A.Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumber. "W.Robinson sp."
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
80 Roxburgh. Duncan cat.
81 Berwick. Syme sp.
82 Haddington.
83 Edinburgh! Babington cat.
85 Fife.
86 Stirling. Croall rec.
90 Forfar.
91 Kincardine.
92 Aber. south?
93 north. Dickie flo. (77 112). [111]. Is it truly wild in any county of North Britain?

903 Plantago lanceolata.

Counties all, except 74 105.

904 Plantago maritima.

Counties all the maritime, except 16 21. It occurs also in some few of the exclusively inland counties, for example in Mid-west and North-west York and Mid-Perth.

905 Plantago Coronopus.

Counties all, except 31 32 33 42 43 47 53 64 65 73 74 77 to 80 86 88 89 97 104 105.

906 Littorella lacustris.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Towns. cat.
12 north! Towns. cat.
13 Sussex w. J.L.Warren cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
20 Herts.
21 Middlesex.
22 Berks.
24 Bucks.
25 Suffolk east.
26 west. Skepper cat.
27 Norf. east. Woodward sp.
29 Cambridge?
37 Worcester?
38 Warwick. Dr. Lloyd sp.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.

48 Merioneth.
49 Carnarv. J.E. Bowman ms.
50 Denbigh. J.E. Bowman cat.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate ms.
69 Westmoreland.
70 Cumberland! Oliver sp.
72 Dumfries. P. Gray ms.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hooker sp.
79 Selkirk.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Lloyd sp.
84 Linlithgow. I. B. Balfour.
85 Fife. Syme cat.
87 Perth west. Syme cat.
88 mid! Worsley cat.
90 Forfar. Sturrock.
91 Kinc. Miss Boswell ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
06 Ross east. Stables ms.
08 Suth. west. Mrs. Russell.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland.

908 Chenopodium olidum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.†
3 Devon south. Goulding sp.
4 north. Maw cat.
6 Som. north. Flower sp.
8 Wilts south.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex w. J. L. Warren cat.
14 east. Bromf. sp.
15 Kent east! Stevens sp.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.†
20 Herts.
21 Middlesex.
23 Oxford.
24 Bucks.
25 Suffolk east. Bloomfield.
26 w. Babington ms.
27 Norf. east. Woodward ms.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
32 Northton.
37 Worcester. (E. Lees).
54 Linc. north. Bogg cat.
55 Leicester?
56 Notts.
57 Derby. Bloxam sp.†
64 York m. west. "colonist."
66 Durham. "colonist."
67 Northumb. "colonist."
82 Haddington?
83 Edinburgh. Maughan sp.
85 Fife?
(59 60 62 63; "naturalised" or casual). [49 52].

909 Chenop. polyspermum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Tate sp.
5 Som. south. Coleman cat.
7 Wilts north? Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. A. Carr sp.
15 Kent east. Stevens sp.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
35 Monmouth. Hort sp.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
49 Carnarvon.
52 Anglesea. Robinson cat.
53 Linc. north. (Fowler rec.).
55 Leicester. Bloxam cat.
56 Notts. Mrs. Russell ms.
57 Derby. Howitt sp.
62 York n. east.
65 n. west.
81 Berwick. Brotherston rec. (59 66). [61 64 90; reported, but need confirmation].

910 Chenop. urbicum. intermedium.

1 Corn. west!
3 Devon south.
5 Som. south.
6 north?
8 Wilts north?
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer cat.
14 east. A. Carr sp.
16 Kent west.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex. Pamplin ms.
23 Oxford. Beesley cat.
25 Suffolk east.
26 west.
27 Norfolk east.
28 west.
29 Cambridge?
30 Bedford. Hillhouse cat.
33 Gloster east. Prentice cat.
35 Monmouth.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop.
55 Leicester.
58 Chester. Wilson.
61 York s. east.
62 n. east. Baker cat.
64 m. west. "colonist."
65 n. west. "colonist."
66 Durham. "colonist."
68 Cheviotland "colonist."
(81 83). [8 9 50 92]. It is to be feared that very little reliance ought to be placed on recorded habitats

for this plant; states of *rubrum* being mistaken for it. Indeed, few botanists appear able to name the *Chenopodia* correctly.

911 Chenopodium rubrum.

1 Corn. west. Gibson sp.
2 east. Pascoe cat.
3 Devon south. Tate sp.
4 north.
5 Som. south. Flower sp.
6 north! Thwaites cat.
7 Wilts north. Preston ms.
8 south.
9 Dorset. Pleydell cat.
10 Wight. More ms.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east! Syme sp.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Blow ms.
21 Middlesex! Syme sp.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east. Syme sp.
28 west. Syme sp.
29 Cambridge.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
35 Monmouth. More.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
41 Glamorgan.
44 Carmathen. Motley cat.
49 Carnarvon. Robinson cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north!
55 Leicester. Ch. Bab. ms.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. E. Bowman sp.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton cat.
75 Ayr. Duncan cat.
76 Renfrew. Montgomery cat.
77 Lanark. Hennedy cat.†
81 Berwick.
83 Edinburgh.
85 Fife. Boswell Syme sp.
92 Aber. south. An error?

911 Chenop. botryoides.

15 Kent east! Syme sp.
16 west. Syme sp.
18 Essex south? Gibson flo.
19 north? Gibson flo.
25 Suffolk east. Eng. flo.
27 Norfolk east. Paget sp.
[2 13 or 14 17 21 28 49 67 85; in all these counties it is probable that *pseudo-botryoides*, the dwarf variety of *Ch. rubrum*, has been mistaken for true *botryoides*].

912 Chenopodium murale.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.

5 Som. south. Miss Gifford.
6 north. Collins ms.
9 Dorset. Mansell-Pleydell sp.
10 Wight! More cat.
11 Hants south. Notcutt sp.
13 Sussex west! Borrer cat.
14 east. Roper.
15 Kent east! Stevens sp.
16 west.
17 Surrey! Christy sp.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex. Christy sp.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Bloomfield.
27 Norfolk east. Babington.
28 west. Miss Bell ms.
29 Cambridge.
30 Bedford.
34 Gloster west. Thwaites sp.
36 Hereford. Purchas ms.
38 Warwick. Bree cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington sp.
46 Cardigan. Atwood sp.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Syme sp.
62 York n. east. Baker cat.
64 m. west.
66 Durham.
67 Northumberland.
[7 50 68 71 77 80 90; insufficiently vouched, and perhaps all erroneous].

913 Chenop. hybridum.

5 Som. south. Coleman cat.
8 Wilts south. Rogers.
9 Dorset. Mansel-Pleydell sp.
16 Kent west! Dr. Bossey sp.
17 Surrey! Salmon sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex.
23 Oxford?
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Marshall sp.
30 Bedford.
32 Northton. Berkeley ms.
34 Gloster west. Thwaites cat.
37 Worcester. Westcombe sp.
38 Warwick. Bromwich sp.
40 Salop. Leighton cat.
59 Lanc. south?
(66 67 83). [6].

914 Chenopodium album.

Counties all, except 5 42 57 73 74 86 97 98 104 105 108.

915 Chenop. ficifolium.

13 Sussex west. Borrer cat.
14 east. J. L. Warren.
16 Kent west. Syme sp.
17 Surrey! Christy sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex! Syme sp.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
62 York n. east.
[8 9 11 34 40 55; re-

quiring verification]. (66 67; on ballast hills). The *paganum* or *virescens* form of *album* is occasionally mistaken for this species. I have seen it only in and from localities in the Thames province.

916 Chenop. glaucum.

10 Wight. Stratton sp.
17 Surrey! Only once seen.
18 Essex south. Gibson flo.
19 north. Syme sp.
21 Middlesex. Syme sp.
27 Norf. east. Trimmer flo.
28 west. Trimmer flo.
41 Glamorgan. Gutch cat.
62 York n. east. Baker bot.
66 Durham. Ward sp.
67 Northumb. New flo.
85 Fife. Syme sp. & ms.†
N.B. Very scarce, and uncertain in its localities.

917 Chen. Bonus-Henricus.

Counties all, except 42 46 73 74 78 88 89 97 98 99 101 to 105 107 108 110 111 112. The indigenous-ness of this plant is looked upon with doubt; more especially so in Scotland, where few writers declare it truly native.

918 Obione portulacoides.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers.
5 Som. south. Collins ms.
6 north. Collins ms.
9 Dorset. Bell Salter sp.
10 Wight! More cat.
11 Hants south. Notcutt sp.
13 Sussex west! Borrer ms.
14 east. Hall cat.
15 Kent east! Buckland sp.
16 west!
18 Essex south.
19 north. Varenne ms.
25 Suffolk east. Woodward sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Purchas ms.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north! Howitt sp.
58 Chester!
59 Lanc. south.
60 west. Syme sp.
61 York s. east.
62 n. east.
66 Durham. Norman cat.
67 Northumberland.
69 Westmoreland. Oliver sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
[83 89; extinct or errors?].

919 Obione pedunculata.

15 Kent east! Syme sp.
16 west. Syme sp.
25 Suffolk east. Stock sp.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Extinct?
53 Linc. s. Sir Jos. Banks.
(44 66; on ballast).

920 Atriplex laciniata.
(*A. arenaria*, Woods).

1 Corn. west.

2 Corn. east.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Collins ms.
6 north. Collins ms.
9 Dorset ?
10 Wight ! More cat.
11 Hants s. H. Groves sp.
13 Sussex w. J. L. Warren cat.
14 east. Roper cat.
15 Kent east ! Syme sp.
18 Essex south. Syme sp.
19 north. Christy sp.
25 Suffolk east. Purchas ms.
27 Norfolk east. Extinct ?
28 west.
52 Anglesea.
54 Linc. north. Howitt ms.
58 Chester. J. L. Warren ms.
59 Lanc. south. Bloxam ms.
60 west. Syme sp.
62 York n. east. Baker ms.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
70 Cumberland.
74 Wigton. (McAndrew).
75 Ayr.
76 Renfrew.
98 Argyle.
99 Dunbarton ?
00 Clyde-isles.
01 Cantire.
02 Eb. south.
06 Ross east ?
08 Sutherland west !
[83 85 90 92 95 96 111; need verification, as perhaps also some of the counties named].

N.B. Dr. Ascherson has shown that our plant is really the *Atriplex laciniata* of Linneus ('Spec. plant. ed. 1, p. 1053, no. 5, exclud. syn. flo. suec.') and thus improperly renamed by Joseph Woods.

921 Atriplex Babingtonii.

1 Corn. west.
2 east. Pascoe cat.
3 Devon south. Parfitt sp.
4 north.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Mansel-Pleydell sp.
10 Wight ! More cat.
11 Hants south !
13 Sussex w. J. L. Warren ms.
14 e. J. L. Warren.
15 Kent east ! Syme sp.
16 west !
18 Essex south.
19 north. Varenne sp.
25 Suffolk east. Purchas ms.
27 Norfolk east. Bab. cat.
28 west.
29 Cambridge. Babington cat.
34 Gloster w. ! Thwaites cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
48 Merioneth. (Reeves).
49 Carnarvon. Hunt sp.
52 Anglesea ?
54 Linc. north !
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker sp.
66 Durham.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westm. Miss Hodgson.
70 Cumberland. Addison sp.
74 Wigton. Balfour sp.
75 Ayr. Balfour sp.
76 Renfrew. Hennedy cat.
81 Berwick. Gourlie sp.
82 Haddington. Balfour cat.

83 Edinburgh. Balfour sp.
84 Linlithgow.
85 Fife. Boswell Syme sp.
87 Perth west. Syme ms.
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
97 Westerness. Ch. Bab. ms.
99 Dunbarton. Ch. Bab. sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Ch. Bab. ms.
09 Caithness. Nicolson cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate cat.
[21 37 106; need confirmation].

922 Atriplex hastata. patula, Sm.

Counties all, except 42 43 46 47 48 71 73 74 78 79 84 88 97 101 103 105 106 107 110,

922 Atriplex deltoidea.

1 Corn. west.
2 east.
3 Devon south. Briggs cat.
6 Som. north. Hort sp.
9 Dorset.
10 Wight. Pleydell cat.
12 Hants north.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. Mrs. Jones sp.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne ms.
21 Middlesex! Hind cat.
22 Berks!
23 Oxford. (Druce rec).
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
34 Northampton. Druce rec.
35 Monmouth. F. J. A. Hort ms.
36 Hereford. Purchas ms.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.
45 Pembroke.
51 Flint. (Parsons rec.)
55 Leicester.
58 Chester.
59 Lanc. south. (Lewis rec.)
61 York s. east.
62 n. east.
64 m. west.
72 Dumfries.
80 Roxburgh. "introduced."
81 Berwick.
83 Edinburgh.
04 Eb. north?
N.B. I do not see how this differs essentially from *hastata*. [112].

923 Atriplex angustifolia. "patula," L.

Counties all, but with many exceptions at present; probably through the species being imperfectly known. The counties for which I lack authorities, are 35 36 37 42 44 46 48 61 71 72 to 75 79 80 84 86 87 88 92 to 98 103 105 to 108.

923 Atriplex erecta.

2 Corn. east. Pascoe cat.
3 Devon south. Briggs sp.
5 Som. south. Coleman cat.

6 Som. north.
7 Wilts north.
9 Dorset. Mansel-Pleydell sp.
10 Wight. More sp.
11 Hants south. Townsend.
12 north! Towns. cat.
13 Sussex west. J. L. Warren.
14 east. Roper.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex. Dyer sp.
22 Berks!
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
36 Hereford. Purchas cat.
38 Warwick. Kirk cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
53 Linc. s. Bloxam ms.
54 north!
55 Leicester. Bloxam sp,
61 York s. east. Moore ms. flo.
62 n. east. Baker cat.
68 Cheviotland.
72 Dumfries.
74 Wigton. Balfour sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour sp.
85 Fife. Syme cat.
90 Forfar. Croall sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north.
10 Hebrides. "N. Uist."
11 Orkney. Syme.

N.B. This common species has been much misunderstood, and confusion has arisen from a supposition that the name was applicable exclusively to an extremely luxuriant state, and not to the normal plant (*Atriplex patula*, var. *serrata*, Eng. Bot., edit. 3), as seen in corn-fields. In general appearance the normal state stands between *angustifolia* and *hastata*, weakly examples difficult to distinguish from the former.

924 Atriplex littoralis.

9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex west! Syme sp.
14 east. Roper cat.
15 Kent east! Jacob sp.
16 west. Syme sp.
18 Essex south. Varenne ms.
19 north. Syme sp.
25 Suffolk east. Purchas ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. J. E. Bowman ms.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north! Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.*
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.

69 Westmoreland. Oliver sp.
70 Cumberland. Addison.
81 Berwick.
82 Haddington. Twynam sp.
83 Edinburgh ?
84 Linlithgow !
85 Fife. Balfour sp.
87 Perth west. Syme ms.
(92) [1 106 108; require confirmation. To 92 the plant is stated to have been introduced, and subsequently to have become extinct there].

924 Atriplex marina.

10 Wight. More cat.
11 Hants south ! Notcutt sp.
13 Sussex west. J. L. Warren.
15 Kent east ! Hind sp.
16 west ! Syme sp.
17 Surrey. Syme sp.
18 Essex south. Varenne ms.
19 north. T. B. Hall sp.
21 Middx. Extinct or error.
54 Linc. north !
62 York n. east. Baker sp.
66 Durham.
67 Northumb. Storey sp.

925 Beta maritima.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
13 Sussex west ! Fordham sp.
14 east. Ranking sp.
15 Kent east ! Twining sp.
18 Essex south.
19 Essex north. Varenne ms.
25 Suffolk east. Purchas ms.
27 Norfolk east. Paget sp.
28 west. Bell sp.
29 Cambridge ?
35 Monmouth. Conway cat.
41 Glamorgan. Dyke sp.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan. Gibson ms.
49 Carnarv. J. E. Bowman ms.
52 Anglesea. Butler sp.
62 York n. east. Baker cat.
66 Durham. Storey sp.†
67 Northumb. Storey cat.*
70 Cumberland. Addison.
71 Man. Jowett to Howitt sp.
82 Haddington. Balfour sp.†
83 Edinburgh. Macnab sp.
84 Linlithgow.
85 Fife.
02 Eb. south. Balfour cat.
[56 Notts. 111 112].

926 Salsola Kali.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
6 Som. north. Thwaites sp.
9 Dorset. Twining sp.
10 Wight ! More cat.
11 Hants south.
13 Sussex w. J. L. Warren cat.
14 east. Hall cat.
15 Kent e. ! G. E. Smith cat.
18 Essex south.
19 north. Skepper ms.
25 Suffolk east. Paget sp.
27 Norfolk east. Babington.
28 west.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.

48 Merioneth. Gibson ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman ms.
51 Flint. Bidwell sp.
52 Anglesea ! Robinson cat.
54 Linc. north. Howitt sp.
58 Chester ! J. L. Warren cat.
59 Lanc. s. ! F. M. Webb cat.
60 west. Linton cat.
61 York s. e. (F. A. Lees rec.)
62 n. east. Baker cat.
66 Durham.
67 Northumb. Storey sp.†
68 Cheviot. Embleton cat.
69 Westm. Miss Beevor.
70 Cumberland.
71 Man. Forbes cat.
72 Dumf. Miss Twining sp.
75 Ayr. Balfour sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Lawson cat.
90 Forfar. Croall sp.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
09 Caithness. " Mr. Peach."

927 Suæda maritima.

1 Cornwall west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south.
6 north. Butler sp.
9 Dorset. Pleydell cat.
10 Wight ! Miss Twining sp.
11 Hants south ! Notcutt cat.
13 Sussex w. ! J. L. Warren ms.
14 east. Roper.
15 Kent e. ! G. E. Smith cat.
16 west !
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Purchas ms.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
34 Gloster w. ! Thwaites cat.
41 Glamorgan. Dyke sp.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. (Arth. Bennett.)
48 Merioneth.
49 Carnarvon. Robinson cat.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south !
54 north ! Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west ! Linton cat.
62 York n. east. Baker ms.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
70 Cumberland.
71 Man. J. Macnab cat.
74 Wigton. (McAndrew.)
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow ! Macnab sp.
85 Fife.
87 Perth west. Syme ms.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie sp.
95 Elgin. Gordon sp.

97 Westerness !
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Eb. mid. (Ross rec.)
04 north. Lawson cat.
05 Ross west.
11 Orkney. Syme cat.
12 Shetland. Tate sp.
[In the Floras of Berwick, but the localities are on the English side only].

928 Suæda fruticosa.

9 Dorset. Bromfield sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Bloomf. cat.
27 Norfolk east. Babington sp.
28 west. Miss Bell sp.
44 Glamorgan ?
(62 67 75). [1 3 6 70].

929 Salicornia herbacea.

Counties all the maritime ones, except 21 35 61 71 73 74 77 81 88 89 94 97 103 105 107 108 109; doubtless it does occur in most of these counties.

930 Salicornia radicans.

3 Devon south. Rogers.
9 Dorset. Twining sp.
10 Wight. Syme sp.
11 Hants south. Notcutt cat.
13 Sussex west. Brewer sp.
15 Kent east. Syme sp.
18 Essex south. Syme sp.
19 north. Syme sp.
25 Suffolk east.
27 Norfolk east.
28 Norfolk west. Miss Bell sp.
62 York n. east. Baker sp.
[6 41 90].

931 Polygonum Bistorta.

3 Devon south. Briggs.*
5 Som. south. Coleman cat.
6 north. Gutch sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.†
15 Kent e. G. E. Smith cat.
17 Surrey. French, Dyke sps.
18 Essex south.
19 north. Varenne ms.
20 Herts. Isaac Brown sp.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge ?
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 w. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
46 Cardigan. Atwood ms.
47 Montgomery.
48 Merioneth.
49 Carnarvon. Robinson cat.

50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Thompson ms.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt sp.
58 Chester! J. L. Warren cat.
59 Lanc. south!
60 west. Linton cat.
61 York s. east. "denizen."
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland!
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
83 Edinburgh! Balfour cat.† (1 to 4 10 85 90 to 96 98 100 102 104 106 109 111 112; probably introduced to all these counties, although reported as if a native in some of them).

932 Polygonum viviparum.

49 Carnarvon.
64 York m. west. Tatham sp.
65 n. west. Pinder sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
69 Westmoreland.
70 Cumberland.
75 Ayr. Duncan cat.
85 Fife! Dewar sp.
86 Stirling.
87 Perth west. Syme sp.
88 mid! Worsley cat.
89 east!
90 Forfar! Croall sp.
91 Kincardine. Dickie sp.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff. "frequent."
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Church. Bab. ms.
99 Dunbarton.
04 Eb. north. Lawson cat.
06 Ross east Gordon ms.
08 Suth. west! Johnston ms.
11 Orkney. Syme ms.
12 Shetland. Tate sp.
[37 53 54 62; erroneous, and perhaps also some of the counties not verified recently on safe authority].

933 Polyg. amphibium.

Counties all, except 42 43 46 47 48 72 74 84 103 104 105 108.

934 Polyg. lapathifolium.

Counties all, except 5 42 46 48 72 74 79 84 89 93 94 96 97 99 103 104 105 107 108 110.

934*Polyg. maculatum.

(*P. laxum, E.B.S. non Reich.*).

1 Corn. w. (Scilly). Towns.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
17 Surrey. Syme.
18 Essex south. Gibson flo.

19 Essex north. Varenne ms.
20 Herts. R. H. Webb flo.
21 Middlesex. Babington.
29 Cambridge. Babington.
30 Bedford.
33 Gloster east. Prentice cat.
34 west. Purchas sp.
35 Monmouth. Babington sp.
36 Hereford. Purchas sp.
38 Warwick. Kirk cat.
45 Pembroke. Trimen.
55 Leicester. Coleman.
62 York n. east. Baker cat.
85 Fife. Syme. (*nodosum*).

935 Polyg. Persicaria.

Counties all, except 42 74 89 98 105 107 108; doubtless it occurs in every county.

936 Polygonum mite.

1 or 2 Cornwall ?
3 Devon south. Tate ms.
9 Dorset. Pleydell sp.
10 Wight. Supp. flo. vect.
12 Hants north. Towns. cat.
17 Surrey ! Syme sp.
18 Essex south. Gibson flo.
21 Middlesex. Dyer 1867.
23 Oxford. Linton rec.
28 Norfolk west. Notcutt cat.
29 Cambridge. Babington cat.
31 Hunts ! Newbould cat.
32 Northton !
58 Chester. Ex. club 1859.
62 York n. east. Bot. n. y.
64 m. w. F. A. Lees cat.
[10 11 12 22 37 41 47 70; insufficiently vouched, but otherwise not unlikely except the last; an ill-understood species, quite distinct from *minus*, with which it has been confused, but very near to *Persicaria*].

937 Polyg. Hydropiper.

Counties all, except 42 74 78 89 93 98 105 to 110. [111 112].

938 Polygonum minus.

1 or 2 Cornwall ?
3 or 4 Som. Southby cat.
9 Dorset. Rogers.
10 Wight. Bromfield sp.
11 Hants south !
12 north !
13 Sussex west. Borrer cat.
14 east.
15 Kent east ?
16 west.
17 Surrey ! Baker sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex. Pamplin ms.
22 Berks. Britten "v. sp."
23 Oxford.
25 Suffolk east. Skepper ms.
26 west ?
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge ? "Ray."
30 Bedford.
32 Northton !
37 Worcester ? "Dr. Stokes."
39 Stafford.
41 Glamorgan ?
44 Carmarthen. Jones rec.
46 Cardigan.
52 Anglesea.
55 Leicester. "Pulteney."
56 Notts.
58 Chester. J. E. Bowman sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.

64 York m. west.
65 n. west. Ward sp.
66 Durham. Norman cat.
70 Cumberland. Baker cat.
72 Dumfries. Balfour sp.
73 Kirkcudbright. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. "Dr. Ross."
87 Perth w. (Clackmannan).
N.B. Several of the counties here enumerated rest on unsafe testimony or on old and unconfirmed authority. [90 Forfar; G. Don].

939 Polygonum aviculare.

Counties all, except 35 42 74 93 97 105; no doubt it is to be found in every county. The various segregates are so imperfectly distinguished as yet, and their localities so seldom recorded apart, that I do not here attempt to cite their counties.

940 Polygonum Raii.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Flower sp.
4 north.
5 or 6 Somerset. "Borrer."
9 Dorset. Pleydell cat.
10 Wight!
11 Hants south. Borrer ms.
13 or 14 Sussex. Borrer ms.
41 Glamorgan. Flower sp.
45 Pembroke. Babington sp.
46 Cardigan. Atwood sp.
48 Merioneth.
49 Carnarvon.
51 Flint. R. Brown.
52 Anglesea.
58 Chester. J. L. Warren cat.
59 Lanc. south. Lewis sp.
60 west. Linton cat.
62 York n. east.
66 Durham.
67 Northumberland.
68 Cheviotland.
70 Cumberland. Addison sp.
71 Man. "Edward Forbes."
74 Wigton. Balfour sp.
75 Ayr. Stewart Murray sp.
76 Renfrew. Gourlie sp.
82 Haddington. Syme sp.
83 Edinburgh.
85 Fife. Boswell Syme sp.
90 Forfar. Gardiner sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour sp.
[112 "common"; Edm. flo.].

940 Polyg. maritimum.

1 Corn. west. Groves.
4 Devon north. Rogers sp.
11 Hants s. Borrer. Groves 1879
[14 28 46 49 75; all errors probably through mistaking the *Raii* for this present species].

941 Polyg. Convolvulus.

Counties all, except 42 46 60 74 97 98 104 105 107 112 (111). M. Alphonse De Candolle regards this as an Asiatic plant, introduced into Britain by human agency. If so, it is a remarkable instance of complete naturalisation through the greater part of the island, although in the more northerly counties of North Britain it might quite suitably be classed as a colonist only, or even as a casual in

the North Isles.

942 Polyg. dumetorum.

3 Devon south. Tate ms.
6 Som. north. Babington sp.
9 Dorset. Mansel-Pleydell sp.
11 Hants south. Buckell rec.
12 north. Bromf. sp.
14 Sussex west. Borrer ms.
15 Kent east. Baker.
17 Surrey !
19 Essex north. Varenne cat.
20 Herts. Coleman sp.
35 Monmouth. Purchas sp.
[68 Cheviotland, an error].

943 Rumex Hydrolapathum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south.
6 Som north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex west ! Borrer cat.
14 east. Bloomfield.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Druce.
33 Gloster east.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
47 Montgomery. Melvill cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south !
54 north !
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. Hunt sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Miss Hancock sp.
69 Westmoreland. Oliver sp.
75 Ayr. Walker-Arnott ms.
80 Roxburgh. Brotherston rec.
81 Berwick.
85 Fife. Syme.
88 Perth mid. (F. B. White).
02 Eb. south. Balfour sp.
(77). [90 93 99].

943*Rumex maximus.

1 Corn. w. (Scilly). Briggs.
2 east. Briggs sp.

11 Hants south. (Warner).
14 Sussex e. J. L. Warren sp.
19 Essex north ? Varenne.

944 Rumex crispus.

Counties all, except 42 61 73 74 98 105 107.

944 Rumex aquaticus. domesticus.

62 York n. east. Baker cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Babington sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland !
70 Cumberland ?
75 Ayr. "Mr. Goldie."
76 Renfrew.
77 Lanark. Balfour sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.
81 Berwick. Brotherston rec.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour sp.
85 Fife. Dewar sp.
87 Perth west ! Syme sp.
88 mid !
89 east !
90 Forfar !
91 Kincardine. Syme sp.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness !
99 Dunbarton ?
04 Eb. north.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate cat.
[2 3 27 31 33 37 40 52; probably intending *Hydrolapathum*].

944 Rumex conspersus.

78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Brotherston rec.
85 Kinross. Walker-Arnott sp.
85 Fife. I. B. Balfour ms.
87 Perth west. Syme sp.
11 Orkney. Boswell.

N.B. Prof. Areschoug named the Scottish plant "*conspersus*," on seeing the specimens in my herbarium; so that its identity with the Swedish plant so named may be fully acquiesced in.

945 Rumex pratensis. (*R. acutus*, L.)

1 Corn. west.
2 east. Pascoe cat.
3 Devon south. Briggs
8 Wilts s. J. L. Warren ms.
9 Dorset. Borrer ms.
10 Wight. Stratton sp.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 e. J. L. Warren cat.
16 Kent west. Syme sp.
17 Surrey ! Syme sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex. Dyer sp.
22 Berks.
25 Suffolk east.
27 Norfolk east. Babington.
29 Cambridge. Babington cat.
30 Bedford. (Newbould).
33 Gloster east.
34 west. Hort ms.

35 Monmouth. Hort sp.
36 Hereford. Purchas sp.
38 Warwick. Bromwich sp.
40 Salop. Leighton cat.
41 Glamorgan. Bab. ms.
45 Pembroke.
50 Denbigh.
51 Flint. R. Brown.
52 Anglesea.
55 Leicester.
58 Chester. Newbould ms.
59 Lanc. south. F. M. Webb.
62 York n. east. Baker cat.
64 m. west.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Syme sp.
85 Fife. Boswell Syme sp.
87 Perth west.
92 Aber. south. Syme sp.
00 Clyde-isles. Syme sp.
11 Orkney. Syme.

N.B. To my eyes this appears to be a miscellaneous medley of specimens more or less intermediate between *crispus* and *obtusifolius*, and on that account not confidently assignable to either. In the citation of "sp." I do not guarantee the name in any other sense. Professor Areschoug considered Dr. Boswell Syme's examples from Fife to be rightly thus named.

947 Rumex obtusifolius.

Counties all, except 42 71 to 74 97 103 105.

947*Rumex sylvestris.

15 Kent e. J. L. Warren rec.
16 west. J. L. Warren.
17 Surrey. J. L. Warren.
20 Herts. Blow sp.
21 Middlesex. J. L. Warren.

948 Rumex nemorosus. sanguineus, Sm.

Counties all, with many exceptions northwards; namely, 24 32 42 43 46 51 54 60 71 to 74 79 86 89 (90) 92 or 93 94 96 97 98 103 to 112. Perhaps confused occasionally with the next, or neglected like other uninteresting "Docks."

948 Rumex conglomeratus. (*R. acutus*, Sm.).

Counties all, except 42 43 47 48 71 72 73 75 79 86 88 89 94 to 98 101 102 105 to 110 [111 112].

948*Rumex rupestris.

1 Corn. west. Cunnack ms.
2 east. Briggs sp.
3 Devon south. Briggs sp.
11 Hants south. (J. Woods).
13 Sussex e. J. L. Warren ms.

949 Rumex pulcher.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers.
5 Som. south. Coleman cat.
6 north. Poole ms.
7 Wilts north. Flower cat.

8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 .north. Towns. cat.
13 Sussex west! Borrer ms.
14 east! Roper.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex!
22 Berks.
23 Oxford.
25 Suffolk east. Bloomf. cat.
26 west. Skepper cat.
27 Norfolk e. Woodward ms.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
37 Worcester. F. A. Lees rec.
38 Warwick. Newbould.
39 Stafford. Douglas cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. (Vize).
49 Carnarvon. Robinson cat.
53 Linc. south!
56 Notts. G. Howitt sp. (67 "ballast hills" 80). [36 70 75 77].

950 Rumex maritimus.

6 Som. north. Collins ms.
9 Dorset. Pleydell cat.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
16 west. Syme.
17 Surrey. Syme sp.
18 Essex south.
21 Middlesex. (Newbould).
25 Suffolk east.
26 west. Church. Bab.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
36 Hereford. Ley rec.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas sp.
40 Salop. Leighton cat.
42 Brecon. Ley rec.
53 Lincoln south!
54 north!
55 Leicester. Bloxam sp.
56 Notts.
57 Derby?
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. west.
64 m. west.
65 n. west.
67 Northum. Brotherston rec.
81 Berwick. Brotherston rec.† (66 68, on ballast, &c.). [3 4 23 24 41 51 72 85 92 94 111; insufficiently vouched, and the higher nos. probably erroneous].

950 Rumex palustris.

6 Som. north. Clark sp.
9 Dorset. Bloxam ms.
13 Sussex west. Borrer cat.
14 east.
16 Kent west! Syme sp.
17 Surrey. Syme sp.
18 Essex south.

20 Herts.
21 Middlesex. Wing sp.
26 Suffolk west.
27 Norfolk east. Syme sp.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould ms.
37 Worcester ?
38 Warwick ?
39 Stafford ?
53 Lincoln s. Streatfield rec.
58 Chester ? J. E. Bowman ms.
59 Lanc. south. (Lewis).
62 York n. east.
64 m. west.
65 n. west.
(66 67 on ballast hills).
[1 3 55 68 75 82 90 ; counties requiring verification, and the same may be true for some of the others here cited interrogatively].

951 Rumex Acetosa.

Counties all, except 74 105.

952 Rumex Acetosella.

Counties all, except 42 74 105.

953 Oxyria reniformis.

48 Merion. J. E. Bowman ms.
49 Carnarv. J. E. Bowman ms.
69 Westmoreland !
70 Cumberland !
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar ! Brand sp.
91 Kincardine.
92 Aber. south ! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness !
97 Westerness !
98 Argyle !
00 Clyde-isles. Hennedy cat.
03 Eb. mid. (Mull). Syme.
04 north. Lawson cat.
06 Ross east. Gordon ms.
10 Hebrides.
11 Orkney. Syme cat.
[34 64 or 65].

954 Hippophae rhamnoides.

14 Sussex east. Bloomfield.
15 Kent e. ! G. E. Smith cat.
25 Suffolk e. Bloomfield ms.
27 Norfolk east. Paget sp.
28 west.
54 Linc. north. Bogg cat.
62 York n. east. Mudd sp.
(3 14 18 68 82 to 85 101 102 108 ; probably planted in all of these counties).

955 Daphne Laureola.

3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
14 east. J. L. Warren.
15 Kent e. G. E. Smith cat.
16 west. Arth. Bennett.
17 Surrey ! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Blow ms.
22 Berks.

23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.
26 west. Wallis sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. J. Hooker ms.
33 Gloster east. Prentice ms.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Howitt ms.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
52 Anglesea ? One locality.
53 Lincoln south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Howitt sp.
56 Notts.
57 Derby. Church. Bab. ms.
58 Chester ? "J. B. Wood."
61 York s. east.
62 n. east. Baker cat.
63 s. west. Parsons rec.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp. (1 2 21 50 59 68 69 75 77 81 83 85 91; recorded as uncertainly indigenous or certainly introduced in these counties).

956 Daphne Mezereum.

12 Hants n. Townsend cat.
13 Sussex west. Borrer ms.
14 east. Jenner rec.
24 Bucks. Britten sp.
37 Worcester. (E. Lees).
64 York m. west. Tatham cat.
65 n. west. Leefe sp.
66 Durham. Norman sp. (3 6 7 8 9 10 11 17 19 20 22 26 27 28 33 or 34 36 38 39 40 57 63 69 75 83; probably an alien in all of these counties; and not clearly indigenous in those named). Mr. Borrer held it "native" in Sussex; and Dr. Bromfield declares it to be so in Hampshire. Mr. Baker gives it the grade of "denizen" in Yorkshire and Durham. It is sown by robins, which feed on its berries in the gardens.

957 Thesium humifusum.

1 or 2 Cornwall...? Butler sp.
3 Devon south.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Southby sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt sp.
12 north. Macreight sp.
13 Sussex west.
14 e. J. L. Warren ms.
17 Surrey! Salmon sp.
19 Essex north.
20 Herts. Fordham sp.
22 Berks.
23 Oxford.
24 Bucks.
26 Suffolk west. Bloomfield.
28 Norfolk west. Miss Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Miss Twining sp.
33 Gloster east. Buckman sp.

958 Asarum europæum.

8 Wilts south. Flower sp.
24 Bucks. Britten "v. spec."

50 Denbigh. (M. C. Cooke).
59 Lanc. south. Dugdale sp.
63 York s. west. Leyland sp.
64 m. west. Tatham sp.
(3 20 22 23 36 55 68 69 70 75 83 84 85; not indigenous in these reported counties; and perhaps not so in any of the other five specially named).

960 Empetrum nigrum.

3 Devon south. Briggs sp.
5 Som. south. Withers sp.
13 Sussex west. Extinct.
35 Monmouth. Conway cat.
36 Hereford.
38 Warwick. Bagnall ms.
39 Stafford! Howitt sp.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Lees sp.
43 Radnor. E. H. Jones.
44 Carmarthen.
48 Merioneth.
49 Carnarvon! Robinson cat.
50 Denbigh! J.E. Bowman cat.
51 Flint.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
62 York n. east.
63 s. west. Barham sp.
64 m. west. Tatham sp.
65 n. west. Baker sp.
66 Durham.
63 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat. co.
73 Kirkcudbright. Gray cat. co.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 to 112. All North Britain, and so plentifully that it appears quite unnecessary to cite the names of counties, with their personal authorities in detail. [21].

961 Euphorbia Peplis.

1 Corn. west! Seen in 1831.
2 east.
3 Devon south. Ralfs.
4 north.
6 Som. north. Collins ms.
9 Dorset. Pleydell.
10 Wight.
41 Glamorgan.
46 Cardigan.

962 Euphorb. Helioscopia.

Counties all, except 42 46 74 78 97 98 105 107.

963 Euphorbia platyphylla.

2 Corn. east.
6 Som. north. Withers sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Bromf. sp.

15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! Ellis sp.
18 Essex south. Syme sp.
19 north. Varenne sp.
20 Herts. Isaac Brown sp.
21 Middlesex. Hind cat.†
22 Berks.
23 Oxford. Pryor.
24 Bucks.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould ms.
32 Northton ! Berkeley ms.
33 Gloster east. Buckman sp.
34 west !
37 Worcester ?
64 York m. west. West rec.
(25 or 26 62 63 64 67 68).

963 Euphorbia stricta.

34 Gloster w. "F. J. A. Hort."
35 Monmouth. Watkins sp.
[6 12 ; misnomers, perhaps through confusion with *E. stricta* of Smith, which was a small state of *platyphylla*].

964 Euphorbia hiberna.

4 Devon north ! Russell sp. (62). [15 21 59].

965 Euphorbia pilosa.

6 Som. north. Flower sp.
14 Sussex east. "wild."

969 Euphorbia Paralias.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 Som. north. Collins ms.
9 Dorset. Twining sp.
11 Hants south. Bromf. ms.
12 north. Townsend.
13 Sussex w. G. E. Smith ms.
15 Kent e. G. E. Smith cat.
18 Essex south. Syme sp.
19 north. Varenne ms.
25 Suffolk east. Notcutt sp.
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke. Russell sp.
46 Cardigan. Purchas ms.
48 Merion. J. E. Bowman ms.
49 Carnarvon. Robinson cat.
50 Denbigh. Bidwell sp.
51 Flint. Robinson cat.
52 Anglesea ?
58 Chester. J. L. Warren ms.
59 Lanc. south ! Scholes sp.
69 Westmoreland.
70 Cumb. Miss Beevor sp.
71 Man. Forbes cat.
(85 Balfour ms.*).

970 Euphorb. portlandica.

1 Corn. west ! Cunnack cat.
2 east. Goulding sp.
3 Devon south. Trevelyan sp.
4 north ! Maw cat.
9 Dorset. Trevelyan sp.
10 Wight. More cat.
11 Hants south. Bromf. sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon ?
51 Flint. Edwards.
52 Anglesea. Harris sp.
58 Chester. J. L. Warren cat.
59 Lanc. south ! Scholes sp.
70 Cumberland.
71 Man. Jowett to Howitt sp.
74 Wigton. G. Macnab sp.
(84 85). [13 15].

971 Euphorbia exigua.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east! Coleman cat.
15 Kent. e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
47 Montgomery. (Vize).
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. w. R. B. Bowman sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey rec.
70 Cumberland.
71 Man.
72 Dumfries?
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
80 Roxburgh.
81 Berwick.
83 Edinburgh. Brand sp.
85 Fife. Boswell-Syme sp.
87 Perth west. Syme ms.
89 east. "Gorrie."
90 Forfar. "frequent."
94 Banff. "Mr. Bissett."
00 Clyde-isles.

A common plant in England, but scarce in Scotland.

972 Euphorbia Peplus.

Counties all, with many seeming exceptions northward; namely, 42 43 72 73 74 78 91 97 98 101 102 105 to 108 110 112.

974 Euph. amygdaloides.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Weaver sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Miss Bell ms.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Miss Bell sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. Bagnall ms.
38 Warwick. Bloxam ms.
39 Stafford. Ch. Bab. ms.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery. Ball sp.
49 Carnarvon. Robinson cat.
53 Linc. south. Fowler rec.
55 Leicester.
56 Notts. "Deering."
57 Derby. Rev. A. Bloxam ms.
64 York m. west. Moore ms.
68 Cheviotland. Bigge sp.
69 Westm. Miss Barnard. (66).

976 Mercurialis perennis.

Counties all, except 71 74 97 105 107 109 110 112. 111 Orkney; Miss Boswell.

977 Mercurialis annua.

1 Corn. west.
3 Devon south. Briggs cat.†
4 north. Maw cat.
6 Som. north! Henslow sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.†
10 Wight. More sp.†
11 Hants south! Notcutt cat.
12 north. Towns. cat.
13 Sussex w. J. L. Warren ms.
14 east! Fordham sp.
15 Kent e.! G. E. Smith cat.
16 west! Syme sp.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
21 Middlesex. Harris sp.
23 Oxford.
25 Suffolk east. Varenne sp.
26 west. Bloomfield.
27 Norfolk east. Paget sp.
28 west.
29 Cambridge. Babington cat.
34 Gloster w.! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.†
40 Salop. Leighton cat.
41 Glamorgan.

44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth.
49 Carnarvon ? Robinson cat.
51 Flint ? Robinson cat.
52 Anglesea ! Robinson cat.
56 Notts.
59 Lanc. south. Dugdale sp.
62 York n. east. Baker ms.†
66 Durham. "colonist."
67 Northumb. Storey sp.†
(70 75 83 85 87; a casual introduction in these counties, as well as in some of the English counties enumerated; while in some others of the latter it is an abundant and troublesome weed.)

978 Urtica urens.

Counties all, except 35 42 43 47 73 74 98 105 108.

979 Urtica dioica.

Counties all, except 74 97 105 107; no doubt it occurs in all of them.

980 Parietaria officinalis.
(*P. diffusa*, M. & K.)

Counties all, with many exceptions northwards, namely, 71 72 73 80 84 88 89 97 98 99 101 to 105 107 to 112. (91 to 96 100 106).

983 Humulus Lupulus.

1 Corn. west ! † Cunnack.*
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.†
14 east. Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks ! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northton ! † Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford ! Fraser cat.†
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Miss Atwood sp.
47 Montgomery. Melvill cat.
48 Merioneth. Britten cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint ! † Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south ! †
54 north. Bogg cat.

55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! † J.L. Warren cat.
59 Lanc. s. F. M. Webb cat.†
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.†
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. "not native."
67 Northumb. Storey cat.*
68 Cheviot. Embleton cat.*
69 Westmoreland! †
70 Cumberland! † Baker.*
71 Man. Forbes cat.† "rare."
72 Dumfries. Gray cat.*
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.†
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.*
80 Roxburgh. Duncan cat.
81 Berwick. Border flo.*
83 Edinburgh! † Balf. cat.*
85 Fife. Lawson cat.† Balf.*
92 Aber. south! *
95 Elgin. Coll. Mor.*

N.B. The Hop is generally reported as a truly indigenous plant in South England; but becoming much doubted, or quite discarded as such, in the northern counties.

984 Ulmus montana.

Counties all, except 11 14 31 32 41 45 46 49 51 53 54 71 73 74 79 80 84 93 94 97 105 107 109 111 112. And in several of the other counties it is reported as being uncertainly native or certainly alien.

985 Ulmus suberosa.

N.B. It is found utterly impossible to say in which of the counties this much planted tree is indigenous, and in which of them it is simply an introduction. The name *campestris*, so frequent in books, has sometimes intended *montana*, but perhaps more frequently this other species. *U.* "*suberosa*" is reported in counties 1 to 6 9 to 14 17 to 22 24 29 30 31 34 36 to 40 43 44 45 46 47 48 49 to 52 54 55 56 58 59 60 to 68 70 72 76 77 81 83 87 91. *U.* "*campestris*" is reported in counties 2 to 9 11 12 14 15 17 to 20 22 23 25 to 30 32 33 34 36 to 40 44 50 52 55 to 59 61 to 65 68. [77 80 81 83 90].

988 Quercus Robur.

Counties all, except 71 74 75 79 105 107 109 to 112, with the usual nine others. This includes the two segregates taken together under the one name made more or less common to both. They are again enumerated in detail below, as I find them severally reported. But the record is misleading numerically, because "*pedunculata*" is less frequently distinguished by name, as a segregate from *Robur*, than is the "*sessiliflora*"; this latter being really less frequent than the former.

988 Quercus pedunculata.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
6 Som. north!
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. Baker.
17 Surrey! Roper sp.
18 Essex south.
19 north. Varenne cat.†
20 Herts.
21 Middlesex.
22 Berks!
24 Bucks. Britten cat.
25 Suffolk east. Purchas ms.
27 Norfolk east. Babington.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northampton. Druce rec.
34 Gloster west. Thwaites sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
48 Merioneth. Ley cat.
49 Carnarvon. (Reeves).
58 Chester! J. L. Warren cat.
59 Lanc. south!
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west.
65 n. west.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland.
70 Cumberland. Baker cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.
82 Haddington. Balfour cat.
83 Edinburgh!† Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.†
86 Stirling. Croall cat.
87 Perth west!
88 mid!
89 east!†
98 Argyle. Clyde flo.
99 Dunbarton. Clyde flo.

988 Quercus sessiliflora.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
17 Surrey!† Roper sp.
18 Essex south.
19 north. Varenne cat.†
20 Herts.
21 Middlesex?
22 Berks.
23 Oxford. Beesley cat.†
25 Suffolk east. Stock cat.
27 Norfolk east.
28 west.
30 Bedford. Hillhouse cat.
34 Gloster west. Thwaites sp.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.

39 Stafford. Douglas cat.†
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
47 Montgomery.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J.E. Bowman cat.
52 Anglesea.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
62 York n. east. Baker cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland. Baker cat.
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.†
78 Peebles. Brotherston cat.
81 Berwick.
83 Edinburgh.
85 Fife. Syme cat.†
86 Stirling. Croall cat.
87 Perth west?
88 mid.
99 Dunbarton.
08 Suth. west. Johnston ms.

N.B. For neither segregate is it possible clearly to distinguish the counties in which it is indigenous, from those in which it exists only as a planted tree or as the offspring from planted trees. True *sessiliflora* is better distinguished by its leaves, than by its sessile fruit; the acorns of *pedunculata* being not seldom subsessile; through which occasional misnomers occur.

989 Fagus sylvatica.

1 Corn. west. Cunnack cat.*
2 east. Briggs cat.†
3 Devon south. Briggs cat.†
4 north. Maw cat.
5 Som. south. Coleman cat.
6 n. Thwaites cat.*
7 Wilts north. Flower cat.†
8 south. Flower cat.†
9 Dorset. Pleydell cat.
10 Wight. More cat. Bromf.†
11 Hants south! Bromfield.
12 north. Baker cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. Floral Guide.
16 west. Tonbridge flo.
17 Surrey! Brewer in flo.
18 Essex south. Gibson flo.†
19 north. Varenne cat.†
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Sibthorpe flo.
24 Bucks. Britten cat.
25 Suffolk east. Skepper flo.*
26 west. Skepper flo.
27 Norfolk east. Trimmer flo.
28 west. Trimmer flo.
29 Cambridge. Babington cat.†
30 Bedford. Abbot flo.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 w. Thwaites cat.*
35 Monmouth. Conway cat.
36 Hereford. Purchas flo.
37 Worcester. Bagnall ms.†
38 Warwick. Kirk cat.†
39 Stafford. Bagnall ms.†
40 Salop. Leighton flo.†
43 Radnor. Ley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. Jones cat.†

47 Montgomery. Ley cat.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.†
50 Denbigh. J.E.Bowman cat.†
51 Flint. Robinson cat.
52 Anglesea. Davies flo.
54 Linc. north. Bogg cat.*
55 Leicester. Bloxam cat.†
56 Notts. Howitt flo.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east. "recorded."
62 n. east. Baker bot.†
63 s. w. F. A. Lees cat.
64 m. west. Baker bot.†
65 n. west. Baker bot.†
66 Durham. "not indigenous."
67 Northumb. New flo.*
68 Cheviotland. New flo.*

(Scotland 72 73 75 76 77 78 80 to 85 86 87 90 91 92 94 95 96 98 100 101 102 103 104 106; planted, not indigenous).

N.B. The alternative signs (* †) are resorted to in this case of the Beech, because the reported English counties are enumerated in detail; to assist in showing where the Beech is apparently non-indigenous. Those counties in which it yet occurs truly spontaneous can scarcely be eliminated from the rest.

990 Carpinus Betulus.

3 Devon south. Rogers rec.†
6 Som. north!†
7 Wilts north. Preston ms.†
8 south. Flower cat.†
9 Dorset. Pleydell cat.
11 Hants south. Bromf.†
12 Hants north.
13 Sussex west. Borrer cat.
14 east. Ranking sp.
16 Kent west!
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.†
22 Berks.
23 Oxford. Beesley cat.†
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
32 Northampton. Druce rec.†
34 Gloster west. Grieve sp.
35 Monmouth. F. J. A. Hort.
36 Hereford. Purchas.†
37 Worcester. Bagnall ms.†
38 Warwick. Kirk cat.†
39 Stafford. Bagnall ms.†
40 Salop?
47 Montgomery. (Vize).
50 Denbigh. J.E.Bowman cat.†
52 Anglesea. Davies flo.

(2 30 54 55 56 58 59 62 to 70 72 76 77 78 81 83 85 86 87 90 91 92 95 103; recorded, but usually as an alien).

990 Corylus Avellana.

Counties all, except 74 98 105 107 112 (110). Shetland is apparently a real exception to comital generality. And in the Hebrides the Hazel has perhaps been introduced again, after having become extinct there.

992 Alnus glutinosa.

Counties all, except 71 74 105 111 112 (109 110).

993 Betula alba.

Counties all, except 42 46 48 (51) 71 74 93 98 105 110 112. (1 18 19 29; recorded as an introduced tree).

993 Betula verrucosa. pendula.

2 Corn. east. Briggs sp.
3 Devon south. Briggs ms.
12 Hants north! Baker cat.
13 Sussex west. Baker cat.
14 east. Bailey rec.
17 Surrey!
21 Middlesex.
27 Norfolk east. Babington.
31 Hunts. Fryer.
34 Gloster west. Druce rec.
36 Hereford. Rev. A. Ley ms.
53 Linc. s. F. A. Lees rec.
54 n. F. A. Lees rec.
58 Chester. J. L. Warren ms.
70 Cumberland. Baker cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
85 Fife. Syme cat.†
00 Clyde-isles. Bailey rec.

N.B. Seldom recorded unless under the aggregate name of "*alba*"; the only name entered in my own notes until a recent date. It may prove to be the more common of the two segregates, and to be tacitly taken as the type of *alba*.

993 Betula glutinosa. pubescens.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north. A. Bennett.
11 Hants south! Towns. cat.
12 north! Towns. cat.
13 Sussex west. Baker cat.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts.
21 Middlesex.
27 Norfolk east. Babington.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
35 Monmouth.
36 Hereford. Purchas cat.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.
43 Radnor.
44 Carmarthen. Motley cat.
53 Linc. s. F. A. Lees rec.
54 n. F. A. Lees rec.
55 Leicester.
58 Chester. Hunt sp.
62 York n. east. Baker cat.
64 m. west.
65 n. west.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
70 Cumberland. Baker cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxb. Brotherston rec.
83 Edinburgh.
87 Perth west!
89 east!
92 Aber. south!
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
04 north.
11 Orkney. Syme.
North Highlands; Bab.

994 Betula nana.

68 Cheviotland.
77 Lanark ?
78 Peebles.
81 Berwick ?
88 Perth mid.
89 east. (F. B. White).
90 Forfar !
92 Aber. south !
94 Banff. Gordon ms.
95 Elgin ? Sir W. Hooker sp.
96 Easterness. Rutherford sp.
97 Westerness !
05 Ross west.
06 east. Gordon sp.
08 Suth. west. Oliver sp.

995 Populus alba.

N.B. My notes show habitats for this Poplar in upwards of sixty counties, from Cornwall to Cantire and Elgin. For the majority of those counties it is marked as a tree likely or certainly introduced. It is given as an unquestioned native in the Floras of Surrey, Essex, Herts, Suffolk, Norfolk, Cambridge, &c. In the Floras of Tyne and North Yorkshire it is reduced to the grade of "denizen." And if I rightly know the distinction between *alba* and *canescens*, I should now deem the latter native, and the former planted, as seen in Surrey and elsewhere.

996 Populus canescens.

1 or 2 Cornwall.
3 Devon south.
6 Som. north. Thwaites cat.
9 Dorset.
10 Wight. More cat.†
11 Hants south. Towns. cat.
12 north.
14 Sussex east. Roper.
16 Kent west !
17 Surrey ! Syme "sp."
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.*
21 Middlesex.
22 Berks.
25 Suffolk east.
27 Norfolk east.
29 Cambridge. Babington cat.
32 Northampton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford.
37 Worcester.
38 Warwick.
39 Stafford. Fraser cat.
40 Salop.
45 Pembroke. Babington cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.†
52 Anglesea.
55 Leicester.
56 Notts.
62 York n. east. Baker cat.†
66 Durham. "denizen."
67 Northumberland. "den."
68 Cheviotland. "den."
77 *Lanark*. Hennedy cat.*
78 Peebles. Brotherston cat.
80 Roxburgh. Brotherston rec.†
81 *Berwick*. "planted."

997 Populus tremula.

Counties all, except 5 32 34 42 46 47 60 72 73 74 78 82 84 102 105 112. Likely enough it occurs in nearly all of these counties. It is

marked as an uncertain native in the lists for (1 2 3 4 11 76 91).

998 Populus nigra.

N.B. This name is enumerated in nearly three score local Floras and Catalogues; but is branded as non-indigenous, with some few exceptions. It is allowed as indigenous in the Flora of Cambridge, which will be my excuse for noticing it at all in a series disregarding the non-indigenous.

999 Salix pentandra.

37 Worcester. Bagnall ms.
38 Warwick. Kirk sp.
39 Stafford. "abundant."
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
49 Carnarvon. (J. E. Griffith).
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester ?
56 Notts.
57 Derby. Bailey rec.
58 Chester. J. L. Warren cat.†
59 Lanc. s. F. M. Webb cat.†
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northumb. Winch sp.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland !
71 Man. Forbes cat. "rare."
72 Dumfries. Cruickshank sp.
73 Kirkcud. Gray cat. co.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Brotherston rec.
80 Roxb. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Bell sp.
84 Linlithgow.
85 Fife. Boswell-Syme sp.
87 Perth west. Syme cat.
88 mid.
89 east. (F. B. White.)
90 Forfar. Gardiner sp.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.†
96 Easterness. Stables cat.†
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
10 Hebrides. Planted ? (2 3 9 13 14 17 19 20 21 23 25 36; apparently planted in these counties; very rare and uncertain in some of them). Rare and (as I now think) always planted in Surrey.

1001 Salix fragilis, etc.

Counties all, except 4 24 25 31 32 35 43 45 46 51 57 60 71 to 74 85 93 94 97 98 99 103 to 112 (79 106 110). Planted in Ross and Hebrides, and perhaps not anywhere truly indigenous in Scotland.

1002 Salix alba, etc.

Counties all, except 4 35 41 42 43 46 47 48 51 57 60 61 71 73 74 (79) 82 84 88 89 94 96 97 (103) 104 to 112. Planted in Sutherland and Hebrides, and the same in many of the other counties which have been reported for it. Indeed I have never seen the White Willow certainly native.

1003 Salix triandra, etc.

Counties all the English, except 4 5 6 31 33 42 43 45 46 47 48 51 54 57 58 60 61 71. In Scotland, reported for 80 81 83 87 90 91, and likely not indigenous in these six.

1003*Salix undulata.

17 Surrey. (Baker).
21 Middlesex. (Baker).
39 Stafford.
64 York m. west. (Baker).
80 Roxburgh.
81 Berwick.

1005 Salix purpurea, etc.

Counties all, except 1 2 4 5 6 10 16 22 31 35 41 to 51 57 70 71 73 74 75 82 85 94 to 99 103 to 112. But in several of them it cannot be declared "truly indigenous."

1006 Salix rubra, etc.

Counties all the English, except 1 to 7 9 10 12 to 15 20 27 31 33 34 35 37 38 41 42 43 47 48 to 51 53 54 55 57 58 60 61 63 69 71. In Scotland *Forbyana* is recorded for 81 and 90; and *rubra* for 80 83 86 and 90, on most unsafe authority.

1007 Salix viminalis.

Counties all, except 4 8 15 31 41 42 43 45 46 47 57 60 61 71 72 74 78 79 82 86 94 96 97 99 103 to 112. Planted at Roddal, in Hebrides ?

1008 Salix Smithiana. acuminata.

Counties all the English, except 1 4 6 7 8 23 24 25 30 31 35 42 43 46 47 48 49 50 51 53 57 60 61 63 71 In Scotland, *Smithiana* (or *ferruginea*) is reported for 80 81 83 84 85 86 90 101 102; and *acuminata* for 76 77 81 83 99 102 111. But truly little or no trust can be given to these numerals either way. The reported localities of the two species (if species at all) are inextricably confused. Further, it is impossible at present to eliminate correctly the native from the planted habitats of this or of any of the preceding species of the genus.

1010 Salix cinerea, etc.

Counties all, except 24 26 30 31 35 42 43 48 50 57 72 73 74 97 98 103 to 109.

Likely occurs in every county.

1011 Salix aurita.

Counties all, except 12 15 28 31 32 42 43 45 48 51 57 60 71 73 74 82 98 99 105 106. Probably it occurs in most of these counties, if not in all of them.

1012 Salix caprea.

Counties all, except 1 35 41 42 45 48 51 57 60 71 to 74 86 94 98 101 104 to 112. Doubtless it occurs in all of these counties up to no. 100, and perhaps truly indigenous in all of them.

1013 Salix nigricans.

62 York n. east. Baker sp.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Winch sp.
68 Cheviotland.
70 Cumberland.
74 Wigton?
78 Peebles. Brotherston cat.
80 Roxb. Brotherston.
81 Berwick. Brotherston.
83 Edinburgh?
88 Perth mid! Syme sp.
89 east! Gardiner sp.
90 Forfar! Gardiner sp.
92 Aber. south! Dickie cat.
96 Easterness!
02 Eb. south. Balfour cat.
[3 8 14 17 23 28 36 38 56 59].

1014 Salix laurina.

38 Warwick. Bromwich.
65 York n. west. Leefe no. 73.
66 Durham. New. flo.
67 Northumb. New flo.
68 Cheviotland. New flo.
69 Westm. Winch sp. *tenuifolia*.
88 Perth mid. "Borrer."
90 Forfar. Gardiner flo.
[9 10 20 27 or 28 44 99]. I do not understand this Willow myself, and give its counties as they are found reported.

1015 Salix phylicifolia.

59 Lanc. south. "Dugdale!"
64 York m. w. F. A. Lees rec.
65 n. west. Ward sp.
66 Durham. Baker sp.
67 Northumb. Winch sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland.
72 Dumfries.
77 Lanark.
79 Selkirk. Brotherston rec.
80 Roxb. Brotherston rec.
81 Berwick. Brotherston rec.
83 Edinburgh.
88 Perth mid! Gardiner sp.
89 east!
90 Forfar! Gardiner sp.
92 Aber. south! Dickie cat.
96 Easterness.
97 Westerness!
98 Argyle!
11 Orkney. Syme ms.
[1 14 17 28 38 58].

1016 Salix ambigua.

N.B. This is a Willow which I do not understand at all clearly. Relying on leaf-specimens named by Dr.

Boswell Syme, I believe to have seen it on the heaths of Surrey and Berkshire and in the East Highlands. There are records for "*ambigua*" in 2 3 13 or 14 18 19 25 27 54 61 67 68 80 88 89 90 96 or 97 103 107 109 111.

1017 Salix repens, etc.

Counties all, except 5 7 32 35 36 42 43 46 47 48 51 57 60 71 72 74 78 82 84 86 98 99 105 106; likely to be found in all or nearly all of these counties.

1021 Salix arbuscula, etc.

72 Dumfries. "Maughan."
88 Perth mid! Balfour sp.
89 east. (F. B. White).
90 Forfar? "G. Don."
92 Aber. south. Dickie g.
99 Argyle. "Dr. Stuart."
11 Orkney? Neill Tour.

1022 Salix Lapponum.

83 Edinburgh. Maughan sp.
86 Stirling. Prof. Balfour.
88 Perth mid!
89 east!
90 Forfar! Cleghorn sp.
92 Aber south! Macnab sp.
96 Easterness.
97 Westerness! Grieve.
05 Ross west. Campbell sp.
08 Suth. west. Graham sp.
11 Orkney? Neill Tour.
[45 56 66 misnomers?]

1023 Salix lanata.

88 Perth mid. E. B. ed. 3.
90 Forfar! Brand sp.
92 Aber. south! Dickie cat.

1025 Salix Myrsinites.

88 Perth mid. Croall.
90 Forfar! Gardiner sp.
92 Aber. south. Dickie cat.
96 Easterness. Gordon ms.
98 Argyle. Brit. flo. ed. 4.
06 Ross east? "reported."
08 Suth west? "reported."
[55 65; errors].

1025*Salix Sadleri.

92 Aberdeen south. Sadler.

1026 Salix reticulata.

88 Perth mid!
90 Forfar! Pollexfen sp.
92 Aber. south! Dickie cat.
97 Westerness. Sadler.
08 Suth. west. Graham exc.
[49 64 69 70; errors].

1027 Salix herbacea.

42 Brecon.
49 Carnarvon.
64 York m. west. Tatham cat.
69 Westmoreland!
70 Cumberland!
72 Dumfries.
86 Stirling.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar!
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness! Grieve.
98 Argyle! Church. Bab. ms.

00 Clyde-isles. Hennedy cat.
03 Eb. mid. Syme sp.
04 north. Lawson cat.
05 Ross west.
08 Suth. west! Graham sp.
09 Caithness.
10 Hebrides.
11 Orkney.
12 Shetland. Tate sp.

1027*Salix Grahami.

08 Sutherland west. Graham.

1028 Myrica Gale.

1 Corn. west!
2 east. Briggs ms.
3 Devon south. Briggs cat.
5 or 6 Som. Trevelyan ms.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer ms.
14 east. Coleman cat.
17 Surrey!
21 Middlesex? Ever found?
22 Berks.
24 Bucks?
25 Suffolk east.
27 Norfolk east. Woodward sp.
28 west.
29 Cambridge. Extinct?
31 Hunts. Fryer sp.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Lees sp.
46 Cardigan.
48 Merioneth.
49 Carnarvon! Robinson cat.
50 Denbigh. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east.
63 s. west. Lees cat.
64 m. west. Tatham sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries. G. Lloyd ms.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Syme.
85 Fife.
86 Stirling. Croall cat.
87 Perth west!
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. G. Macnab sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Syme.
04 north. Lawson cat.
06 Ross east! Gordon ms.
07 Suth. east!
08 west! Johnston ms.
09 Caith.! Brown Campst. cat.

1029 Pinus sylvestris.

61 York s. e. Parsons. "native."
88 Perth mid. (F. B. White).
89 east. (F. B. White).
92 Aberdeen south !
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
97 Westerness !
03 Mull. Ross cat.
05 Ross west. Ch. Bab. ms.
08 Suth. west. Lightf.

N.B. The Pine formerly grew throughout Britain, as is shown by its remains still found plentifully in peat moors and elsewhere. Some natural forests of it still exist in the counties enumerated above; possibly in some few others also. Thousands of seedling fir-trees spring up yearly on the heaths of Surrey, and counties adjacent; which grow up to be timber trees where allowed to remain; but apparently all these can trace back their origin to planted trees only, or to other immediate offspring of planted trees; so that, they cannot be accepted now as purely native trees, however thoroughly naturalised again.

1030 Juniperus communis.

1 Corn. west. Cunnack sp.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ? "one bush only."
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey ! Mrs. Tickner sp.
18 Essex south.
19 north. Varenne ms.†
20 Herts. Blow ms.
21 Middlesex. Extinct.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northampton.
33 Gloster east. Prentice cat.
34 west.
36 Hereford. "Wilmott."
37 Worcester.
40 Salop.
41 Glamorgan.
49 Carnarv. J. E. Bowman ms.
52 Anglesea. (J. E. Griffith).
56 Notts.
62 York n. east. Baker ms.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland !
70 Cumberland ! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray ms.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
86 Stirling. Croall cat.
87 Perth west. Syme cat.

88 Perth mid. F. M. Webb rec.
89 east. (B. White).
90 Forfar ! Croall sp.
91 Kincardine. Syme cat.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
97 Westerness !
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Grieve.
06 Ross east ! Gordon cat.
08 Suth. west !
09 Caith. Brown Campst. cat.
11 Orkney. Neill tour.
12 Shetland. Edmon. flo. (27 39 55). [52]. Mr. Cunnack's Juniper (" var. *prostrata* ") from the Lizard, Cornwall, is a dwarf form much like *nana*, the next species or segregate.

1030 Juniperus nana.

49 Carnarvon. Butler sp.
69 Westmoreland.
70 Cumberland !
90 Forfar !
92 Aber. south !
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid. Ross rec.
04 north. Lawson cat.
08 Suth. west !
09 Caithness. Dick.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland.

N.B. It is difficult to trace any absolute line of separation between the Dwarf and the Common Juniper, much dissimilar as their general aspect certainly is while we are contrasting the extreme forms only. [65 76 ; requiring verification].

1031 Taxus baccata.

6 Som. north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Towns.
12 north. Towns. cat.
13 Sussex w. Oakeshott rec.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west. Groves sp.
17 Surrey !
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf.*
26 west.
34 Gloster west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford !
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. E. H. Jones cat.†
44 Carmarthen. Jones rec.
49 Carnarvon. Robinson cat.
50 Denbigh ! J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.†
56 Notts.
57 Derby ! Howitt cat.
62 York n. east. Baker cat.†
63 s. west. Parsons rec.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumberland.

68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
88 Perth mid. (B. White).
98 Argyle. Lightf. scot. (1 3 4 10 18 19 21 27 29 33 55 58 59 61 63 77 81 83 85 90 91 92 95 96; more or less uncertainly indigenous; perhaps introduced to most of these counties).

1032 Goodyera repens.

70 Cumberl. F. A. Lees rec.†
75 Ayr. Duncan cat.
80 Roxburgh.
81 Berwick.
84 Linlithgow. Balfour cat.
88 Perth mid.
89 east. (F. B. White).
90 Forfar. Balfour sp.
91 Kincardine. Syme sp.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Westerness. Ch. Bab. sp.
05 Ross west.
[11 20 67 70; errors].

1033 Spiranthes autumnalis.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Flower sp.
4 north. G. Maw ms.
5 Som. south. Poole ms.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Miss Twining sp.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Trevelyan sp.
14 east. Miss Hall cat.
15 Kent east. Broome sp.
16 west. Pamplin ms.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east. Stock sp.
28 west. Bell ms.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick.
39 Stafford.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington sp.
46 Cardigan. Atwood ms.
47 Montgom. J. E. Bowman ms.
48 Merioneth.
49 Carnarvon.
52 Anglesea.
55 Leicester. Ch. Bab. ms.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. south!
60 west. Simpson sp.
62 York n. east.
63 s. w. F. A. Lees cat.

64 York m. w. F. A. Lees cat.
65 n. west.
69 Westm. G. Pinder ms.

1034 Spiranthes æstivalis.

11 Hants south. Brewer sp.
37 Worcester. Gissing ms.
[3 South Devon ; error ?]

1036 Neottia Nidus-avis.

1 Corn. west. Pascoe ms.
3 Devon south. Briggs cat.
4 north.
5 Som. s. F. A. Lees rec.
6 north. G. S. Mill sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Pamplin ms.
12 north. Russell sp.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! Holman sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Blow ms.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford. Christy ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 w. Thwaites cat.
35 Monmouth. Gissing ms.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Bagnall ms.
39 Stafford. Fraser cat.
40 Salop. H. Darby ms.
41 Glamorgan.
50 Denbigh. J. E. Bowman cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south.
62 York n. east. Baker ms.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Thompson sp.
68 Cheviotland. Tate cat.
69 Westmoreland.
70 Cumberland !
73 Kirkcudbright. Gray ms.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour sp.
84 Linlithgow. Balfour cat.
85 Fife.
87 Perth west. Syme ms.
88 mid ! Miller cat.
89 east.
90 Forfar.
91 Kincardine. Roy msc.
92 Aber. south. Lady Huntly.
94 Banff. Roy msc.
96 Easterness. Miss Grant sp.
98 Argyle !

1037 Listera cordata.

4 Devon north. Hore sp.
5 Som. south. Coleman sp.
9 Dorset. "Mr. Borrer."
11 Hants south. Roberts ms.
40 Salop. Leighton cat.
48 Merioneth. Price sp.
50 Denbigh. J.E.Bowman ms.
57 Derby. "Mr. Valentine."
58 Chester. "Mr. Astley."
59 Lanc. south.
61 York s. east. Storey sp.
62 n. east. Baker ms.
63 s. west. Leyland sp.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Storey sp.
68 Cheviotland. Tate sp.
69 Westmoreland.
70 Cumberland.
71 Man.
72 Dumfries.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
85 Fife.
86 Stirling.
87 Perth west. Syme ms.
88 mid! Worsley ms.
89 east.
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
97 Westerness! Ch. Bab. ms.
98 Argyle. Church. Bab. ms.
00 Clyde-isles. Hennedy cat.
02 Eb. s. (Colonsay) Grieve.
04 Eb. north. Lawson cat.
05 Ross west.
06 Ross east. Gordon ms.
08 Suth. west!
09 Caith. Brown Campst. cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

1038 Listera ovata.

Counties all, except 41 42 46 71 73 74 78 93 97 101 104 105 107 110 111 112; likely to occur in most of these.

1039 Epipactis latifolia.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south!
12 north. Pamplin ms.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey! Brewer sp.
18 Essex south.
19 north. Varenne cat.
20 Herts? Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west.
29 Cambridge?
30 Bedford. Hillhouse cat.

32 Northton. Notcutt cat.
33 Gloster east. Lees sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Dillwyn ms.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
52 Anglesea! Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Pringle sp.
69 Westmoreland!
70 Cumberland!
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh. Duncan cat.
81 Berwick. Embleton ms.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
86 Stirling. G. E. Hunt sp.
87 Perth west. Syme ms.
88 mid.
89 east. (F. B. White).
90 Forfar.
92 Aber. south.
94 Banff. Gordon ms.
95 Elgin?
00 Clyde-isles.
03 Eb. mid. Ross rec.

N.B. The distribution, as above set forth, may partly include the next two species or segregates, long usually included under the name of "*latifolia*." Reported in 105 and 107, West Ross and West Sutherland; but this latter intended the *ovalis* or *atrorubens*, and probably the former also. "True *latifolia* in Moray and Banff"; J. Roy ms.

1039 Epipactis violacea.
(*E. media*, Bab.)

3 Devon south?
10 Wight. More cat.
11 Hants s. Marquand rec.
12 north. Townsend.
14 Sussex east. "Luxford."
15 Kent east. "Haslam."
17 Surrey! Linnell sp.
18 Essex south. Gibs. flo.
19 north. Gibs. flo.
20 Herts. R. H. Webb flo. 295.
21 Middlesex? T. D. flo.
22 Berks. Britten cat.
24 Bucks. Britten cat.
29 Cambridge. Babington cat.
30 Bedford. E. B. S. 2775.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
40 Salop. Babington ms.
49 Carnarvon? J. E. Bowman.
55 Leicester. Coleman cat.
57 Derby. Bab. Man.

62 York n. east. "Foggitt!"
63 s. west. "Newb."
64 m. west. Baker sp.
65 n. west. Ward cat.
70 Cumberland. Bab. ms.
84 Linlithgow. "Balfour."

N.B. This includes the "*purpurata*" of English writers; but whether all the authorities quoted could really discriminate between this segregate and the other two, the *latifolia* and *ovalis*, I am not able to say. The root or rootstock, not represented in the figure in English Botany, differs from those shown in the figures of *latifolia* and *atrorubens*; being tufted, not creeping. [46].

1039 Epipactis atrorubens.

(*E. ovalis*, Bab.)

28 Norfolk west. Bell sp.
36 Hereford. Purchas flo.
49 Carnarvon. Lees.
64 York m. west. Tatham sp.
65 n. west. N. Y. bot.
69 Westm. J. Backhouse.
08 Suth. west! Oliver sp.
[10 Wight; Bromfield].

N.B. This appears to be the true *media* of Fries, the plant so named in the 'Manual' being the *violacea*, including *purpurata*.

1040 Epipactis palustris.

1 Corn. west. Ralfs.
2 east.
3 Devon south.
4 north. Maw cat.
6 Som. north.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Towns. cat.
12 north.
13 Sussex w. J. L. Warren sp.
15 Kent east. Smith cat.
17 Surrey. Brewer sp.
19 Essex north.
20 Herts. Miss Twining sp.
21 Middlesex?
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Bunbury sp.
27 Norfolk east. Cooper sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Berkeley ms.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop. Bidwell sp.
41 Glamorgan. Dillw. ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Bidwell sp.
52 Anglesea! Robinson cat.
55 Leicester.
56 Notts.
58 Chester.
59 Lanc. s. F. M. Webb cat.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker ms.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland. Pringle sp.

69 Westmoreland.
70 Cumberland.
81 Berwick.
82 Haddington.
83 Edinburgh! Balfour cat.
85 Fife. James Macnab sp.
87 Perth west. (F. B. White.)
89 mid. (F. B. White.)
04 Ebudes north?

1041 Cephalanthera grandiflora.

6 Som. north. Flower.
7 Wilts north. Broome sp.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. "Ingram."
12 north. Herb. Kidd.
13 Sussex west. Weaver sp.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west. Atkins sp.
17 Surrey. Linnell sp.
19 Essex north.
20 Herts. Blow ms.
22 Berks. Twining sp.
23 Oxford. Godley sp.
24 Bucks. Pamplin ms.
29 Cambridge. "Wenton."
30 Bedford. "Anderson."
32 Northton. "Henderson."
33 Gloster east. Morley sp.
36 Hereford. Purchas cat.
37 Worcester.
48 Merioneth. Dyer.
55 Leicester.
56 Notts.
57 Derby.
69 Westmoreland.
70 Cumberland.
[88 98 100; *C. ensifolia*.?]

1042 Cephalanth. ensifolia.

8 Wilts south.
9 Dorset. Pleydell.
11 Hants south.
12 north.
13 Sussex west.
15 or 16 Kent...?
17 Surrey. Mrs. Robinson sp.
20 Herts.
23 Oxford. E. M. Cox sp.
33 Gloster east. H. Roberts ms.
34 w. Rev. H. C. Reader.
36 Hereford. Purchas cat.
37 Worcester. Bloxam sp.
38 Warwick. Bagnall.
39 Stafford.
40 Salop. Bidwell sp.
49 Carnarvon. Butler sp.
55 Leicester?
56 Notts.
62 York n. east. Bean sp.
64 m. west. Tatham ms.
66 Durham. "Mr. Bungey!"
67 Northumb. Leefe.
69 Westmoreland.
75 Ayr. Harper sp.
83 Edinburgh. Balfour cat.
85 Fife. Dewar sp.
88 Perth mid. "Bishop."
89 e. Drummond Hay rec.
98 Main Argyle. Ross rec.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. "Isle of Mull."

1043 Cephalanthera rubra.

5 Som. south. Collins, 1835.
31 Hunts? "Woodward."
33 Gloster east. Wintle.
34 w. (Beck. 1876.) A. Bennett.
[64 York mid-west].

1044 Epipogum aphyllum.

36 Hereford. Extinct?

1044 Corallorhiza innata.

75 Ayrshire ?
81 Berwick. "W. Shaw."
83 Edinburgh ! Campbell sp.
85 Fife. Brand sp.
87 Perth west. Dewar sp.
88 mid. Extinct ?
90 Forfar.
91 Kincardine. Roy.
92 Aber. south. Dr. Roy.
96 Easterness. Miller.
05 Ross west.
06 east ? Gordon ms.
[16 West Kent ; an error].

1045 Orchis Morio.

1 Corn. west.
3 Devon south. Briggs cat.
4 north. Briggs sp.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight !
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! Alcie Parfett sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
47 Montg. J. E. Bowman ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts. "Very common."
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northum. R. B. Bowman sp.
68 Cheviot. "one locality."
70 Cumberland. "T. Benson."
[83 111 ; errors both ?]

1046 Orchis mascula.

Counties all, except 41 42 48 53 71 74 78 96 97 101 103 to 105 107 108 110 111.

1048 Orchis ustulata.

3 Devon south.
6 Som. north.

7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
17 Surrey ! Salmon sp.
19 Essex north.
20 Herts. Fordham sp.
21 Middlesex. Extinct.
22 Berks. Miss Bell sp.
23 Oxford. Beesley cat.
26 Suffolk west. Blomfield.
28 Norfolk west.
29 Cambridge. Harris sp.
30 Bedford. Isaac Brown sp.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
36 Hereford. "Wilmott."
37 Worcester ?
39 Stafford. "Hewgill."
40 Salop ?
53 Linc. south. Bloxam sp.
54 north. Fowler rec.
55 Leicester ?
56 Notts ?
57 Derby !
60 Lanc. west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. R.B.Bowman sp.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumberland. "coast."
69 Westm. Gissing, 1867.
70 Cumberland.

1049 Orchis fusca. purpurea.

13 Sussex west. Extinct ?
15 Kent east. Henfrey sp.
16 Kent west. Herb. Borrer.
[17 21 24 53 or 54].

1049 Orchis militaris.

20 Herts. R. H. Webb flo., &c.
22 Berks. Boswell Syme sp.
23 Oxford. Boswell Syme sp.
24 Bucks. Hanbury sp.
[Kent ? Middlesex ?]

1049 Orchis Simia tephrosanthes.

16 Kent w. Peete in herb. Borrer.
22 Berks. Druce.
23 Oxford. Syme sp.
[17 Surrey ?]
N.B. These three Orchids (1049) have been much confused and cross-named; so that only the recent reports can be relied upon, and if made by experienced botanists.

1050 Orchis hircina.

15 Kent east. "Oxenden."
16 west. "Wollaston."
17 Surrey ? "Graves."
25 Suff. east. Bloomfield ms.
[56 57 70; errors].

1051 Orchis pyramidalis.

1 or 2 Cornwall ?
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north. Sawbridge sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Weaver sp.

14 Sussex east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey!
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex?
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Cooper sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Bree sp.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
45 Pembroke.
49 Carnarvon. Bloxam ms.
50 Denbigh. Bailey rec.
51 Flint. J. E. Bowman sp.
52 Anglesea. "Very rare."
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester. F. M. Webb cat.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Leefe sp.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland.
70 Cumberland.
74 Wigton.
81 Berwick. "Stuart, 1870."
02 Colonsay. Grieve.
[85; an error?]

1052 Orchis latifolia, Agg.

Counties all, except 18 42 45 to 47 74 97 69 105 107 108. The two segregates are treated apart underneath.

1052*Orchis maialis.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
7 Wilts north. Preston ms.
8 south. Rogers sp.
10 Wight.
11 Hants south. Towns. cat.
12 north! Towns. cat.
17 Surrey!
24 Bucks.
29 Cambridge. Babington cat.
32 Northton. Druce rec.
40 Salop. Leighton in flo.
48 Merioneth. (W. W. Reeves).
53 Linc. south. Fowler rec.
54 north. F. A. Lees rec.
59 Lanc. south. R. Brown.
66 Durham. F. A. Lees rec.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie rec.
88 Perth mid. (F. B. White).
89 east. (F. B. White).

N.B. This is the more frequent segregate, and the one to which the name of *latifolia* is usually applied. But few writers have yet distinguished between this and the next; so that the localities of both

segregates remain imperfectly recorded.

1052*Orchis incarnata.

1 Corn. w. Ralfs & Curnow.
3 Devon south. Briggs sp.
7 Wilts north. Preston ms.
8 south.
9 Dorset. E. B. 3.
10 Wight.
11 Hants south. Towns. cat.
12 n. (C. B. Clarke sp.)
14 Sussex east. Roper.
17 Surrey. Syme.
18 Essex south.
19 north.
20 Herts. Blow rec.
21 Middlesex.
24 Bucks. Britten cat.
27 Norfolk east. Ar. Bennett.
29 Cambridge. Babington cat.
37 Worcester. Matthews.
40 Salop. Leighton in flo.
44 Carmarthen. Jones rec.
54 Lincoln north. Fowler rec.
58 Chester. J. L. Warren ms.
59 Lanc. south. F. A. Lees rec.
61 York s. east. Parsons rec.
62 n. east. Webster rec.
64 m. west. Webster rec.
67 Northumb. Brotherston rec.
70 Cumberland.
79 Selkirk. Brotherston rec.
80 Roxb. Brotherston rec.
82 Haddington. Balfour cat.
84 Linlithgow. Balfour cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Roy lre.
93 Aber. north. Alex. Watt.
02 Eb. south. (Grieve).

1053 Orchis maculata.

Counties all, except 42 46 47 71 74 80 105.

1054 Orchis Conopsea.

Counties all, except 4 5 41 42 43 45 46 47 51 53 71 74 78 79 82 105 107 110. Extinct in 21; and uncertain in 11 58. Very scarce in 112. Not common, although known in about ninety counties.

1055 Habenaria bifolia, Ag.

Counties all, except 41 42 46 53 74 78 79 86 101 103 105 107 110 111 112. This includes the two segregates treated apart below.

1055*Habenaria eu-bifolia.

2 Corn. east. Briggs cat.
3 Devon south. Briggs sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Groves rec.
12 north.
14 Sussex east. Roper.
15 Kent east. Crespigny rec.
17 Surrey!
19 Essex north. Varenne cat.
20 Herts.
21 Middlesex.
24 Bucks. Britten cat.
26 Suffolk west. Skepper cat.
27 Norfolk east.
31 Hunts. Newbould cat.
33 Gloster east. Prentice cat.
36 Hereford. Purchas ms.
37 Worcester. Matthews.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.

43 Radnor. E. H. Jones cat.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
48 Merioneth.
49 Carnarvon.
51 Flint. Bacon.
54 Linc. n. Fowler & Lees.
55 Leicester.
57 Derby. "Mr. Astley."
60 Lanc. west. Bailey sp.
61 York s. east. Parsons rec.
62 n. east. Baker cat. co.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmor. Matthews.
70 Cumberland. Baker cat.
73 Kirkcudbright.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxb. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
87 Perth west.
88 mid. Ley rec.
89 east. (F. B. White).
92 Aber. south.
94 Banff.
98 Argyle.
00 Clyde-isles. Hennedy cat.
03 Ebudes mid.

N.B. This may truly be the more frequent of the two segregates; but being usually recorded under the name "*bifolia*," which is applicable to either, the records fail to be discriminative; even my own notes of former years can be used only under the joint name, not specially for either this segregate or for *chlorantha*. Another added to the many other illustrations of the confusion and inconvenience which arise through the use of the same name generally for an aggregate and specially for one of its segregates only. "Common throughout the north-eastern counties" of Scotland; John Roy ms.

1055*Haben. chlorantha.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Briggs sp.
5 Som. south. Coleman cat.
6 north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
15 Kent east. Brent sp.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Blow ms.
21 Middlesex.
22 Berks. Britten cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
35 Monmouth. Gissing ms.

36 Hereford. Purchas ms.
37 Worcester. Matthews.
38 Warwick. Bagnall ms.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
48 Merioneth. Britten.
49 Carnarvon. Ley rec.
53 Linc. south. Fowler rec.
54 north. Thompson ms.
55 Leicester. Bloxam ms.
58 Chester. J. L. Warren cat.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmor. Miss Barnard.
70 Cumberland. Baker cat.
72 Dumfries.
73 Kirkcudbright. Gray cat.
74 Wigton.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Bell sp.
84 Linlithgow. Balfour sp.
85 Fife. Syme ms.
86 Stirling. Duthie rec.
87 Perth west. Syme cat.
88 mid. Ley rec.
89 east. (F. B. White).
91 Kincardine. Roy ms.
92 Aber. south. Roy ms.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross rec.
04 north. Lawson cat.

1056 Habenaria viridis.

3 Devon south. Briggs sp.
5 Som. south. F. A. Lees rec.
6 north. Russell sp.
7 Wilts north. Flower cat.
8 south. Southby sp.
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
14 east. Hall cat.
15 Kent east. Stevens sp.
17 Surrey. Wood ms.
18 Essex south.
19 north.
20 Herts. Isaac Brown sp.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks.
25 Suffolk east. Stock sp.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce.
33 Gloster east. Roberts ms.
34 west. Thwaites sp.
35 Monmouth. Gissing ms.
36 Hereford. "Wilmott."
37 Worcester. E. Lees sp.
38 Warwick.
39 Stafford.
40 Salop. Leighton cat.
42 Brecon.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman ms.
51 Flint.
52 Anglesea. Robinson cat.
54 Linc. north. Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby! Howitt cat.

58 Chester.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. Makepeace sp.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland! Baker cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
81 Berwick.
82 Haddington. Brand sp.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife.
86 Stirling.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar! Brand sp.
91 Kincardine. Syme sp.
92 Aber. south! Dickie sp.
93 north. Dickie sp.
94 Banff.
95 Elgin. Gordon cat.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Stables sp.
03 mid. Ross rec.
04 north. Lawson cat.
06 Ross east Gordon cat.
08 Suth. west! Johnston ms.
09 Caith. Brown. Campst. cat.
10 Hebrides.
11 Orkney. Syme.
12 Shetland. Tate sp.

1057 Habenaria albida.

14 Sussex east. Borrer ms.
46 Cardigan. Atwood sp.
48 Merioneth. R. J. Price sp.
49 Carnarvon. Bidwell sp.
58 Chester?
59 Lanc. south. Goodlad hb.
62 York n. east.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Storey sp.
69 Westmoreland.
70 Cumberland!
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark.
85 Fife.
86 Stirling.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar! Brand sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness!
97 Westerness!
98 Argyle.
99 Dunbarton!
00 Clyde-isles. Hennedy cat.
01 Cantire.
02 Eb. south.
04 north.
06 Ross east. Gordon ms.
09 Caith. Brown Campst. cat.
11 Orkney. Syme sp.
12 Shetland. One locality.
[11 32 37 40; insufficiently vouched, and likely errors].

1058 Aceras anthropophora.

13 or 14 Sussex. Borrer cat. co.
15 Kent east. Stevens sp.
16 west. Dennes ms.
17 Surrey!
18 Essex south.
19 north.
20 Herts.
22 Berks.
24 Bucks.
25 Suffolk east.
26 west. Henslow ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
32 Northton. Berkeley ms.
54 Lincoln north.
63 York s.w. "Mrs.Broadrick."

1059 Herminium Monorchis.

6 Som. north.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Bromfield.
12 north. Towns. cat.
13 Sussex west. Weaver sp.
14 east.
15 Kent e. G. E. Smith cat.
16 west. Jenner sp.
17 Surrey. Salmon sp.
19 Essex north. Extinct?
20 Herts. S. Lucas sp.
21 Middlesex? Extinct?
22 Berks.
23 Oxford?
24 Bucks. Britten cat.
26 Suffolk west.
28 Norfolk west.
29 Cambridge. Babington cat.
32 Northton.
33 Gloster east. Marsden sp.
34 west. Reader.
[69 70; need verification].

1060 Ophrys apifera.

1 Corn. west.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. "Miss E. Burton!"
10 Wight. More cat.
11 Hants south.
12 north. Towns. ca.
13 Sussex west. Borrer cat.
14 east. Hall cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Holman sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Extinct.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Fryer.
32 Northton.
33 Gloster east. Roberts ms.
34 west. Thwaites cat.
35 Monmouth. Lees sp.
36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. "Mrs. Skipwith."
39 Stafford.
40 Salop. G. Lloyd sp.
41 Glamorgan.
45 Pembroke.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south.

54 Lincoln north. Bogg cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester. One specimen.
59 Lanc. south.
62 York n. east.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward ms.
66 Durham. R. B. Bowman sp.

1060 Ophrys arachnites.

15 Kent east. Brent sp.
17 Surrey. "W. Wood, 1833." [34. Phytol. iv, 1055].
N.B. It would seem by the coloured figures in Mr. Traherne Moggridge's paper on *Ophrys*, that the present one is more closely allied to *aranifera* than to *apifera*, and traceable to it through intermediate variations.

1061 Ophrys aranifera.
(*O. fucifera*).

9 Dorset. Pleydell sp.
10 Wight. More cat.
14 Sussex east. Hall cat.
15 Kent east. French sp.
16 west. Macnab sp.
17 Surrey. Extinct?
19 Essex north.
23 Oxford?
26 Suffolk west.
29 Cambridge. "not recently."
30 Bedford.
32 Northton. Extinct? [7 20 25 40 53 or 54 64].

1062 Ophrys muscifera.

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer cat. co.
14 east.
15 Kent east. Stevens sp.
16 west.
17 Surrey! Ellis sp.
19 Essex north. Varenne cat.
20 Herts. Blow ms.
21 Middlesex. Extinct.
22 Berks. W. Hurst ms.
23 Oxford.
24 Bucks. W. Hurst ms.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west. Gissing ms.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester? One locality?
40 Salop. One locality.
52 Anglesea. "Very rare."
54 Linc. north. Thompson ms.
56 Notts.
57 Derby! Howitt cat.
61 York s. east.
62 n. east. Baker ms.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
69 Westm. Gissing &c.
N.B. The localities for this and other species are decreasing.

1063 Malaxis paludosa.

4 Devon north. Briggs sp.
9 Dorset. Pleydell cat.
10 Wight ?
11 Hants south. Towns. cat.
13 Sussex west.
14 east. A. Wallis sp.
15 Kent east.
17 Surrey ! Salmon sp.
20 Herts ?
25 Suffolk east.
27 Norfolk east.
29 Cambridge. Warner sp.
30 Bedford.
39 Stafford.
49 Carnarvon.
58 Chester.
59 Lanc. south. Percival.
63 York s. west. Whitehead.
65 n. west. "Binks."
66 Durham.
67 Northumberland.
69 Westmoreland !
70 Cumberland. "Lyall."
74 Wigton. "Winch."
75 Ayr. Duncan cat.
85 Fife. Dewar sp.
86 Stirling. Craig Christie.
87 Perth w. A. C. Christie sp.
88 mid. J. Sadler sp.
90 Forfar ! Nicolson sp.
91 Kincardine. Roy sp.
92 Aber. south. Dickie cat.
96 Easterness.
97 Westerness. Sadler.
98 Argyle. Church. Bab. ms.
99 Dunbarton. Gourlie sp.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
05 Ross west.
06 east. "Wilson" sp.
07 Suth. west. Graham sp.

1064 Liparis Loeselii.

15 Kent east ?
26 Suffolk west. Bloomfield.
27 Norfolk east. Barham sp.
29 Cambridge. Babington sp.
31 Hunts. Bree sp.

1065 Cypripedium Calceolus.

62 York n. east.
64 m. west. Tatham sp.
66 Durham. "N. Usher" sp.
69 Westmoreland ?
[70; likely an imposition].

1066 Iris fœtidissima.

1 Corn. west ! Cunnack cat.
2 east ! Briggs cat.
3 Devon south ! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Atwood ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Twining sp.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north. Pamplin ms.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e.. G. E. Smith cat.
16 west.
17 Surrey. Brewer sp.
18 Essex south.
19 north.
20 Herts.
21 Middlesex.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomfield.†
26 west.
27 Norfolk east. Stock cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford. S. Foster sp.
33 Gloster east.

36 Hereford. "Wilmott."
37 Worcester.
38 Warwick. Bagnall.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen.
46 Cardigan. Atwood sp.
50 Denbigh.
52 Anglesea. J.E.Bowman ms.
55 Leicester. Coleman cat.
61 York s. east. Druce.†
62 n. east. Hincks sp.
64 m. w. F.A.Lees cat.
65 n. west. Mudd.
66 Durham. New flo.
(83 85 100; introduced).

1067 Iris Pseudacorus.

Counties all, except 42 73 74 89 105.

1068 Gladiolus illyricus.

11 Hants south. J.R. Wise sp. (3 9 10; one or two casual plants in each). N.B. In one of its places in the New Forest it is reported to be found in proximity to planted Rhododendrons. Possibly all the spots might be connected with planted trees or shrubs.

1069 Trichonema Columnæ.

3 Devon south. Trevelyan sp.

1070 Crocus nudiflorus.

38 Warwick. Bromwich sp.
39 Stafford. Fraser cat.†
40 Salop.
56 Notts. Howitt sp.
57 Derby. Whittaker sp.
58 Chester. "truly wild."; J.R.
59 Lanc. south! Scholes sp.
63 York s. west. Leyland sp.†
N.B. Wild now, but dubiously native in England.

1072 Narcissus Pseudo-Narcissus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer cat.†
14 east. Hall cat.
15 Kent e. G. E. Smith cat.†
16 west. Young sp.
17 Surrey. Ellis sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex? Hind cat.*
22 Berks.
23 Oxford. Beesley cat.*
24 Bucks. Britten cat.†
25 Suffolk east. Bloomfield.†
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. S. Foster sp.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.

39 Stafford. Fraser cat.
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.†
45 Pembroke. "common."
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Bogg cat.†
55 Leicester. Coleman cat.†
56 Notts ?
57 Derby. Howitt cat.
58 Chester ! J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.†
63 s. west. Leyland sp.
64 m. w. Tatham cat.
65 n. west.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westmoreland. Bloxam ms.
70 Cumberland.

(75 76 77 81 83 85 86 87 90 95 98; not truly wild in Scotland; and perhaps the garden plant, *Narcissus major*, is exclusively the species found there in a quasi-wild state; as may be the case also in some of the English counties).

1073 Galanthus nivalis.

N. B. My collection of notes shows the Snowdrop reported from 64 counties. In very few instances is it suggested to be even probably native, unless by collectors whose opinion would not be of any value in the question. The Flora of Edinburgh, however, gives Snowdrop, Daffodil and Tulip equally as natives.

1074 Leucojum vernum.

9 Dorset. Mansel-Pleydell sp.
23 *Oxford.*

N.B. Possibly introduced to Dorset; as being a plant not likely to occur there in a truly native state. [38].

1075 Leucojum æstivum.

9 Dorset. Pleydell cat.
16 Kent west. Syme sp.
18 Essex south. More.
22 Berks. Britten "v. sp."
23 Oxford. Rev. A. Ley sp.
24 Bucks. Britten cat.
25 Suffolk east. Herb. Borrer.

(2 3 18 21 38 67 69; likely introduced to these counties; also very ill vouched in some of them).

1077 Tulipa sylvestris.

N.B. My notes show records for this Tulip in upwards of thirty counties, most usually as an introduced plant. Dr. F. A. Lees thinks that it may be indigenous in South-west Yorkshire.

1078 Fritillaria Meleagris.

6 Som. north. "for ages."
7 Wilts north. Flower sp.
11 Hants south. Bromf. ms.
12 north. Bromf. sp.
17 Surrey. Christy sp.
18 Essex south. Varenne ms.
19 north.
20 Herts. Coleman sp.

21 Middlesex.
22 Berks. J. H. Wilson sp.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
26 west. Bell sp.
27 Norfolk east. Stock cat.
29 Cambridge. Extinct.
30 Bedford.
34 Gloster west. Thwaites cat.
38 Warwick. Kirk cat.
39 Stafford. Bidwell sp. (2 3 9 13 14 40 55 62 64 69 70 75; introduced to these counties, and likely also to some of those enumerated by name).

1081 Allium Scordoprasum.

59 Lanc. south. Babington sp.
61 York s. east.
62 n. east.
63 s. west. Hailstone sp.
64 m. west. Tatham sp.
65 n. west.
66 Durham. Thompson sp.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Maclagan sp.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright.
77 Lanark. Horn.†
81 Berwick.
85 Fife. Balfour sp.
89 Perth east! Syme sp. (96). [1 9 37 90].

1082 Allium oleraceum.

3 Devon south. Briggs sp.
6 Som. north. Russell sp.
9 Dorset. Pleydell sp. 1870.
10 Wight. More ms. 1869.
11 Hants south. Notcutt ms.
12 north. Spicer ms.
13 Sussex west. Crotch sp.
15 Kent east. "*carinatum.*"
16 west.
17 Surrey. Ar. Bennett.
19 Essex north.
20 Herts.
21 Middlesex! H. C. W. 1856.
23 Oxford. Beesley ms.
26 Suffolk west.
27 Norfolk east.
28 west.
29 Cambridge.
30 Bedford. "*carinatum.*"
32 Northton. Berkeley ms.
34 Gloster west. Stephens sp.
37 Worcester.
38 Warwick.
39 Stafford. Garner.†
44 Carmarthen. Oakeshott rec.
45 Pembroke?
54 Lincoln north. Fowler rec.
56 Notts.
58 Chester. J. L. Warren ms.
61 York s. east.
62 n. east. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate sp.
69 Westmoreland.
70 Cumberland.
81 Berwick.
85 Fife.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp. (91 Kincardine; D. G.)

1082*Allium carinatum.

53 *Linc. south.* Berkeley. (17 88).

1083 Allium vineale.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Bloxam sp.
10 Wight. More cat.
11 Hants south.
12 north.
13 Sussex w. J. L. Warren ms.
14 east. Oakeshott rec.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Lloyd sp.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley rec.
45 Pembroke. Atwood sp.
48 Merioneth.
49 Carnarv. J.E. Bowman ms.
52 Anglesea. Robinson cat.
54 Linc. north. F. A. Lees rec.
55 Leicester.
56 Notts.
57 Derby!
58 Chester.
59 Lanc. s. F. M. Webb sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviotland. Embleton sp.
70 Cumberland. "Benson."
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick.
83 Edinburgh! Brand sp.
84 Linlithgow.
85 Fife. Boswell-Syme sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.

1084 A. sphærocephalum.

34 Gloster west. Stephens sp. Stephens in 1847. Flower in 1869; so far constant.

1084 A. Schœnoprasum.

1 Corn. west! "*sibiricum*."
42 Brecon. Moggridge.
67 North. Storey sp. Winch sp.
68 Cheviotland. Winch ms.
69 Lake Lanc. "J. Seward." (36 57 62 77 81 85).
[98 Argyle, very doubtful].

1086 Allium ursinum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Towns. cat
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent. e. G. E. Smith cat.
16 west.
17 Surrey. Wood ms.
18 Essex south.
19 north. Varenne cat.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west.
27 Norfolk east. Skepper cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Warner sp.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford. Fraser cat.
40 Salop.
41 Glamorgan. Dyke sp.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Melvill cat.
49 Carnarvon! Robinson cat.
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northum. R.B. Bowman sp.
68 Cheviotland. Embleton cat.
69 Westmoreland! Bloxam ms.
70 Cumberland! Baker cat.
71 Isle of Man. Forbes cat.†
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Syme sp.
84 Linlithgow. Balfour cat.
85 Fife. G. Lawson ms.
86 Stirling.
87 Perth west. Syme cat.
88 mid. Worsley cat.
89 east. Druce rec.
90 Forfar.
91 Kincardine. Croall sp.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
96 Easterness!
00 Clyde-isles. Hennedy cat.
02 Eb. south. Stables sp.

03 Eb. mid. Ross cat.
04 north. Gordon ms.
06 Ross east. Gordon ms.
N.B. The above records leave this Garlick unvouched in little over a score of the counties. Thus, while tested by its counties, it would seem to be one of the "common plants." But I have myself met with it only once in North Britain; and I have never seen it in Surrey or counties adjacent; nor have observed it often elsewhere.

1086 Allium triquetrum.

1 Corn. west. Cunnack sp.
N.B. Mr. Cunnack reports this "undoubtedly wild" in West Cornwall. The so-called *Leucojum æstivum* of the Isle of Dogs, Middlesex, would seem to be this plant. See Comp. Cyb. Brit. 581.

1087 Gagea lutea.

6 Som. north. French sp.
9 Dorset. Pleydell cat.
13 or 14 Sussex.
17 Surrey ?
20 Herts. Buxton fide Pryor.
22 Berks.
23 Oxford.
25 Suff. east. Bloomfield ms.
32 Northton. Druce.
33 Gloster east. Woodward sp.
34 west.
36 Hereford. Purchas sp.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.
56 Notts.
57 Derby. Howitt sp.
58 Chester ?
61 York s. east.
62 n. e. "Mrs. Atwood!"
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland ?
73 Kirkcudb. Cruickshank sp.
77 Lanark ?
80 Roxburgh.
83 Edinburgh.
84 Linlithgow.
85 Fife! 1830. Extinct now ?
86 Stirling. Croall rec.
88 Perth mid.
89 east. (F. B. White).
90 Forfar ?
96 Easterness. Stables sp.

1088 Ornithogalum pyrenaicum.

6 Som. north! Russell sp.
7 Wilts north. Broome sp.
8 south. Flower cat.
13 Sussex west. Borrer ms.
22 Berks.
29 Cambridge. Extinct.
30 Bedford.
Gloster...?
[3 17 21 40; not sufficiently vouched].

1091 Scilla verna.

1 Corn. west. Pascoe sp.
2 east. Crotch sp.
3 Devon south.
41 Glamorgan. Gutch sp.
45 Pembroke. Babington cat.
46 Cardigan.
48 Merioneth.
49 Carnarvon! Robinson cat.

51 Flint. Bacon.
52 Anglesea! Robinson cat.
68 Cheviotland. Embleton sp.
71 Man. Forbes cat.
73 Kirkcudbright. Syme sp.
74 Wigton. (McAndrew).
75 Ayr.
81 Berwick.
93 Aber. north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
01 Cantire. Balfour cat.
02 Eb. s. (Colonsay). Grieve.
03 mid.
08 Suth. west.
09 Caith. Brown Campst. cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
[10 21; probably errors].

1092 Scilla autumnalis.

1 Corn. west! Cunnack cat.
2 east.
3 Devon south. Neve sp.
4 north. Rogers.
10 Wight. More sp.
16 Kent west. Dennes sp.
17 Surrey! G. Wood ms.
21 Middlesex. Newbould.
34 Gloster east. Thwaites cat.
[4 6 39 49 71; errors?]

1093 Hyacinthus non-scriptus.

(*Scilla nutans*).

Counties all, except 42 74 86 97 98 103 105 108. (110 111 112).

1094 Muscari racemosum.

25 Suffolk east.
26 west. Skepper cat.
27 Norfolk east.
(2 3 17 19 to 22 29 55; apparently an introduction in all these counties; perhaps also in Suffolk and Norfolk).

1095 Lloydia serotina.

49 Carnarvon. Butler sp.

1095 Simethis bicolor.

9 Dorset. Borrer sp.
Extirpated before 1875.

1095 Narthecium ossifragum.

Counties all, except 7 18 to 21 23 25 26 32 33 42 53 55 56 60 61 74 78 82 105. The drainage and enclosure of bogs and marshes no doubt must gradually banish this plant from many of its localities. Rare in the south-eastern counties; abundant in Scotland.

1096 Asparagus officinalis.

1 Corn. west! Cunnack sp.
9 Dorset. Flower ms. 1869.
41 Glamorgan. Moggridge sp.
45 Pembroke. Jones rec.
52 Anglesea. Crotch sp.
(3 6 10 11 14 15 16 17 18 19 25 27 29 34 45 53 59 60 82; in most or all of these counties the plant is simply an escape from gardens; while in the five which are cited by name and authority, it is the wild prostrate form which is found).

1097 Ruscus aculetus.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 or 6 Somerset...?
7 Wilts north. Preston ms.*
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west. Weaver sp.
14 east. Bromf. sp.
15 Kent east. Hind sp.
16 west!
17 Surrey! Wood ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.*
24 Bucks. Britten cat.
25 Suffolk east. Bloomf. cat.
27 Norfolk east.
41 Glamorgan. Henfrey ms.
55 Leicester.
(29 62 64 65 66 68 75 77 83 85 95 102; planted or misreported in these counties). [36 56].

1098 Maianthemum bifolium.

62 York n. east. Ward sp.
(21 30 59 64 68 84; very dubiously indigenous in these counties, and lost from some of them). Several botanists have declared it likely a native near Scarborough, in North-east Yorkshire).

1099 Convallaria majalis.

3 Devon south. Briggs sp.
6 Som. north. Thwaitessp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat. 1873.
11 Hants south. Bromf. lre.
12 north.
14 Sussex east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey. Ellis sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. T. B. Blow ms.
21 Middlesex. Kingsley sp.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
26 Suffolk west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Harris sp.
30 Bedford. Reynolds sp.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west. Ley rec.
35 Monmouth. Conway cat.
36 Hereford. Purchas ms.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint. Robinson cat.
54 Lincoln north.
55 Leicester. Howitt sp.
56 Notts.
57 Derby! Howitt cat.
58 Chester! Robinson ms.
61 York s. east.
62 n. east. Baker cat. co.
63 s. west. Leyland sp.
64 m.w. R.B.Bowman sp.
65 n. west. Ward sp.
66 Durham. Norman cat.

67 Northum. R. B. Bowman sp.
69 Westmor. Bloxam ms.
70 Cumberland. Introduced?
87 Perth west. Syme sp.†
88 mid.
89 east. Brand sp.
90 Forfar. "one native loc."
96 Easterness. Gordon sp.
09 Caithness. Nicolson cat.† (59 68 73 76 77 83 85 94 95). Perhaps not indigenous in some of the counties named. The Rev. Dr. Gordon holds it "clearly indigenous" in 96.

1100 Polygonatum verticillatum.

67 Northumb. Makepeace sp.
88 Perth mid. (F. B. White).
89 east. J. Macnab sp.
90 Forfar. Planted? [21 72; insufficiently vouched]. Uncertain native.

1101 Polyg. multiflorum.

3 Devon south. Briggs sp.
4 north. Waterfall.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.†
11 Hants south. Bromf. ms.
12 north. Pamplin ms.
13 Sussex west. Weaver sp.
15 Kent e. G. E. Smith cat.
17 Surrey. Ellis sp.
18 Essex south.
22 Berks.
24 Bucks. Britten cat.
25 Suffolk east.
27 Norfolk east.
30 Bedford.
33 Gloster east.
43 west. Leader.
36 Hereford.
39 Stafford.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
64 York m. west. Tatham cat.
65 n. west. Ward sp.
67 Northum. R. B. Bowman sp. (1 2 6 14 20 21 38 59 62 68 69 70 72 75 76 77 82 83 86 87 90 91 92 95; dubiously indigenous in these counties, and perhaps also in some of those named).

1102 Polyg. officinale.

6 Som. north. Russell sp.
7 Wilts north. Flower sp.
9 Dorset. E. B, ed. 3.
33 Gloster east. E. Lees sp.
34 west. Reader.
35 Monmouth. "Gissing."
45 Pembroke. Babington cat.
48 Merioneth. Backhouse rec.
57 Derby. A. Ley ms. 1873.
60 Lanc. west. Gissing ms.
64 York m. west. Tatham sp.
68 Cheviotland. Embleton sp.
69 Westmoreland. R. Brown. [8 12 16 21 25 27 28 70 92; errors?]

1103 Paris quadrifolia.

6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south. Pamplin ms.
12 north. Pamplin ms.
13 Sussex west. Weaver sp.
15 Kent e. G. E. Smith cat.
16 west. Pamplin ms.
17 Surrey. Brewer sp.

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19 Essex north. Varenne cat.
20 Herts. Isaac Brown sp.
21 Middlesex. Hind ms.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Stock sp.
28 west. Notcutt cat.
29 Cambridge. Harris sp.
30 Bedford.
31 Hunts. Fryer.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west.
35 Monmouth. Conway cat.
36 Hereford. E. Lees sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
43 Radnor.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west. Simpson sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. w. R. B. Bowman sp.
66 Durham. Norman cat.
67 Northumb. Makepeace sp.
68 Cheviotland. Embleton sp.
69 Westmoreland ! Bloxam.
70 Cumberland. Baker ms.
72 Dumfries ?
75 Ayr.
76 Renfrew. Hennedy cat.†
77 Lanark. Hooker sp.
83 Edinburgh ! Balfour cat.
85 Fife. Hunter sp.
86 Stirling. Hennedy ms.
87 Perth west. Syme ms.
88 mid. Craig Christie.
89 east.
90 Forfar.
91 Kincardine. Croall sp.
92 Aber. south.
94 Banff. J. Roy lre.
96 Easterness ! "Anderson."
09 Caithness. Nicolson cat.

1104 Tamus communis.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north ! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north ! Towns. cat.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks ! Britten cat.
23 Oxford. Campbell sp.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.

28 Norfolk west. Cooper sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts ! Newbould cat.
32 Northton ! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford ! Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
47 Montgomery. Melvill cat.
48 Merioneth. (W. W. Reeves).
49 Carnarvon ! Robinson cat.
50 Denbigh ! J. E. Bowman cat.
51 Flint ! Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south !
54 north ! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt sp.
58 Chester ! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west ! Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northum. R. B. Bowman sp.
69 Westmoreland !
70 Cumberland.

Apparently quite absent from Scotland, although so nearly general to the counties of England.

1105 Colchicum autumnale.

5 Som. south.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
12 Hants north.
13 Sussex west. Extinct.
17 Surrey. Freeman sp.
19 Essex north.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
29 Cambridge ?
30 Bedford.
32 Northton. Druce.
33 Gloster east. Prentice cat.
34 west. Edmonds sp.
35 Monmouth. Conway cat.
36 Hereford. Shawe sp.
37 Worcester. "abundant."
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
47 Montg. J. E. Bowman cat.
54 Lincoln north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Church. Bab. sp.
58 Chester.
61 York s. east.
62 n. west. Baker cat.
63 s. west. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham. "G. T. Fox."
69 Westmoreland. "Woods."

(21 51). [3 10 83 87].

1106 Tofieldia palustris.

65 York n. west. Baker sp.
66 Durham. R. B. Bowman sp.
88 Perth mid !
89 east ! Brand sp.
90 Forfar !
92 Aber. south ! Dickie cat.
94 Banff. Roy lre.
95 Elgin. Gordon cat.
96 Easterness ! Gordon ms.
97 Westerness !
98 Argyle.
04 Eb. north.
05 Ross west.
08 Suth. west.
[55 "Mr. Moore" in K. flo.]

1107 Hydrocharis Morsus-ranæ.

3 Devon south.
5 Som. south. Collins ms.
6 north. Thwaites cat.
9 Dorset ?
11 Hants south.
13 Sussex west ! Borrer cat.
14 east. Hall cat.
15 Kent e. ! G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts.
21 Middlesex !
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bab. ms.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge.
30 Bedford.
31 Hunts ! Newbould cat.
32 Northton !
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Withers ms.
37 Worcester.
39 Stafford. Fraser cat.
40 Salop. Bidwell sp.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
51 Flint ! Robinson cat.
54 Lincoln north ! Bogg cat.
55 Leicester.
56 Notts.
58 Chester ! J. L. Warren cat.
59 Lanc. south. Tudor ms.
60 west. Linton.
61 York s. east. Parsons rec.
62 n. east. Baker ms.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat
65 n. west.
66 Durham. Norman cat.
(10 ; introd. by Dr. Salter).
[83 Edinburgh ; an error?]

1107 Anacharis Alsinastrum.

(*Elodea canadensis*).

N.B. Recorded in fifty counties or upwards, from Cornwall to Aberdeen. Had the introduction of this water-weed chanced to occur a century earlier, we should now be treating it as an aboriginal native of Britain. Mr. Marshall's account of its earlier and successive appearances in different localities is a valuable bit of botanical history. Pity that similar accounts for other plants did not commence two centuries back ; we want such an early history for the next plant below.

1108 Stratiotes aloides.

25 Suffolk east. Stock cat.
26 west. Skepper.
27 Norfolk east.
28 west. Cooper sp.
29 Cambridge. Baker sp.
31 Hunts. Newbould cat.
32 Northton.
54 Lincoln north. Bogg cat.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
63 s. w. F. A. Lees cat.
64 m. west.
67 Northum. R. B. Bowman sp. (10 17 19 20 22 23 60 62 65 83 89 90). [70].

N.B. Extremely difficult to separate the artificial from the natural stations for this plant, if any of them are absolutely native localities for it. I have seen it in the province of the Mersey only, and distrusted all the few localities where observed. The province of Ouse seems the most deserving of trust.

1109 Alisma Plantago.

Counties all, except 42 43 74 78 97 98 103 104 105 107 to 112.

1110 Alisma ranunculoides.

1 Corn. west! Cunnack cat.
2 east.
3 Devon south.
6 Som. north. Thwaites ms.
7 Wilts north. Flower cat.
8 south.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Towns. cat.
13 Sussex w.! J. L. Warren ms.
14 east. Hall cat.
15 Kent e.! G. E. Smith cat.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne ms.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan. (Straker).
48 Merioneth. (Straker).
49 Carnarvon Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea!
53 Linc. south. Fowler rec.
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west.

65 York n. west. Ward ms.
66 Durham.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Isle of Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
74 Wigton. (McAndrew).
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife. Brand sp. Syme sp.
87 Perth west. (F. B. White).
88 mid. (F. B. White).
89 east.
90 Forfar. Balfour sp.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
06 Ross east!

1111 Alisma natans.

40 Salop. Bloxam sp.
41 Glamorgan.
48 Merioneth.
49 Carnarvon. Babington sp.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
58 Chester. J. L. Warren sp.
61 York s. east.
65 n. west.
70 Cumberland.
74 Wigton.
75 Ayr. Duncan cat.
[36 37; insufficiently vouched; was *repens* intended?]

1112 Actinocarpus Damasonium.

11 Hants south. Bromfield.
13 Sussex west. Borrer cat.
14 east.
15 Kent east. Extinct?
17 Surrey. Linnell sp.
18 Essex south.
20 Herts.
21 Middlesex. Kingsley sp.
22 Berks.
24 Bucks. Britten cat.
25 Suffolk east?
37 Worcester. (E. Lees).
40 Salop.
[1 Corn. west. Bree].

1113 Sagittaria sagittifolia.

3 Devon south. Rogers.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Towns. cat.
12 north.
13 Sussex west. Warren sp.
14 east. Warner sp.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Wood ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Bunbury sp.
27 Norfolk east. Cooper sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.

32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts. Russell sp.
57 Derby. Howitt cat.
58 Chester. J. L. Warren ms.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham.
69 Westmoreland.
70 Cumberland.
76 Renfrew. Hooker sp. C.f.†
77 Lanark. Hennedy cat.† (Scotland, planted?)

1114 Butomus umbellatus.

1 Corn. west. Miss Millett.
3 Devon south. Rare, if wild.
4 north?
6 Som. north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More ms. 1862.
11 Hants south. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Warner sp.
15 Kent east. G. E. Smith cat.
16 west. Reynolds sp.
17 Surrey!
18 Essex south. Varenne ms.
19 north. Varenne cat
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east.
34 west. Stephens sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. G. Reece sp.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan. Moggridge sp.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. J.E. Bowman ms.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! Dunbavand sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker ms.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west.
66 Durham. R. B. Bowman sp. (68 70 83 87 88 89).

1115 Triglochin maritimum.

Counties all the maritime, from Cornwall to Shetland, except 35 71 74 97 105 107; probably in all of these.

1116 Triglochin palustre.

Counties all, except 16 35 42 43 47 74 78 86 103 105 107.

1117 Scheuchzeria palustris.

40 Salop.
56 Notts. Berkeley (sent to).
58 Chester. Rev. G. Pinder sp.
63 York s. west. Harrison sp.
65 n. west. Baker sp.
88 Perth mid. Gardiner sp.

1118 Potamogeton densus.

3 Devon south?
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt sp.
12 north. Towns. cat.
13 Sussex w.! J. L. Warren ms.
14 east. J. L. Warren.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick.
39 Stafford. Fraser cat.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley ms.
52 Anglesea.
53 Linc. south!
54 north! Bogg cat.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
59 Lanc. s. F. M. Webb sp.
61 York s. east.
62 n. east. Baker cat.
63 s. west. O. Moore flo.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland! Oliver sp.
77 Lanark. Hennedy cat.
80 Roxburgh. Maughan sp.
82 Haddington.
83 Edinburgh. Lloyd sp.

1119 P. pectinatus.

1 Corn. west. Curnow sp.
3 Devon south.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.

12 Hants north!
13 Sussex w.! J.L. Warren cat.
14 Sussex east. Trevelyan sp.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! W.D. Biden sp.
18 Essex south. Varenne ms.
19 north. Varenne sp.
20 Herts.
21 Middlesex. Twining sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. (Holmes).
25 Suffolk east. Stock cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Hort sp.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east.
34 west! Thwaites cat.
36 Hereford. Purchas sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk sp.
39 Stafford. Douglas sp.
40 Salop. Leighton cat.
44 Carmarthen. "Motley."
47 Montgomery. (Hind).
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. Hall sp. Hunt sp.
59 Lanc. south. Whalley sp.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. w. Tatham cat.
65 n. west. Baker sp.
66 Durham.
67 Northum. R.B. Bowman sp.
68 Cheviotland.
72 Dumfries. Gray cat.
75 Ayr. J. P. Duncan cat.
80 Roxburgh. J. Duncan cat.
81 Berwick.
83 Edinburgh. Syme sp.
85 Fife. Syme cat.
90 Forfar. Sturrock.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon sp.
96 Easterness.
06 Ross east?
08 Sutherland west?
09 Caithness. (Grant).
11 Orkney. Syme.
[112 *P. filiformis* only?]

1119*P. flabellatus.

6 Som. north. Babington.
9 Dorset. Pleydell cat.
11 Hants south. "Borrer."
12 north!
13 Sussex west. (Beeby).
15 Kent east. Syme ms.
16 west. Syme ms.
17 Surrey! Syme ms.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts. W. & C. flora.
21 Middlesex. Power.
22 Berks. J. L. Warren ms.
23 Oxford. (Druce).
24 Bucks. (Beeby).
27 Norfolk east. Trimmer.
28 west. Babington.
34 Gloster west. Thwaites cat.
36 Hereford. (Ley).
38 Warwick. Kirk ms.
39 Stafford. Douglas.
53 Linc. south. Fowler rec.
55 Leicester. Bloxam.
56 Notts. Mitchell.
58 Chester. J. L. Warren ms.

59 Lanc. south. Whalley.
61 York s. east. Newbould.
62 n. east. Baker.
64 m. west. Bot. n. y.
65 n. west. Bot. n. y.
66 Durham. Norman ms.
80 Roxburgh. Brotherston rec.
N.B. At present it is impossible to apportion the localities of the aggregate *pectinatus* between the *eu-pectinatus* and *flabellatus*, with the subordinate *scoparius* or *marinus* so called. Perhaps they are really all of them one selfsame species, variable as water plants frequently are seen to be.

1119 Potamogeton filiformis.

81 Berwick. E. B. ed. 3.
85 Fife. Boswell Syme sp.
90 Forfar. Mrs. Fotheringham!
06 Ross east. E. B. ed. 3.
08 Sutherland west. (Miller).
09 Caithness. (Grant).
11 Orkney. Syme sp.
12 Shetland. Tate sp.
N.B. Through a confusion of nomenclature between this and *scoparius*, the "*marinus*" of several collectors, various other counties have been erroneously reported for the present plant.

1120 P. trichoides.

25 Suffolk east. Ar. Bennett.
27 Norf. east. Barnard sp.
28 west. Dr. Lowe.

1121 Potamogeton pusillus.

Counties all, with rather numerous exceptions, probably because it is often overlooked by collectors or deemed too frequent to require special records. My notes give no authorities for counties 32 35 42 43 46 47 48 53 57 74 78 79 86 87 88 97 98 100 103 to 108 110 112.

1121 P. compressus, Sm. (*P. mucronatus*, Schrad).

9 Dorset. Pleydell cat.
12 Hants north. (Beeby).
13 Sussex west. (Beeby).
14 east. (Mennell).
15 Kent east. (Newbould).
17 Surrey! Syme sp.
22 Berks. (Druce).
23 Oxford. (Druce).
27 Norfolk east. Paget sp.
29 Cambridge. (Ar. Bennett).
32 Northton. Druce rec.
36 Hereford. Ley.
38 Warwick. Kirk sp.
40 Salop. J. E. Bowman sp.
55 Notts. T. H. Cooper sp.
58 Chester. (J. L. Warren).
64 York m. w. F. A. Lees rec.
73 Kirkcudbright. (Coles).
85 Fife. Miss Boswell sp.
90 Forfar. (Sturrock).
99 Dunbarton. (Gibson).
11 Orkney. Syme.
N.B. Greatly confused with *pusillus* on one side, and with *acutifolius* or *obtusifolius* on the other side. It is reported from many other counties besides those above selected as being about the best vouched; but some of the "sps." are in leaf only, and not quite certain.

1123 P. obtusifolius.
(*P. gramineus*, Sm.)

12 Hants north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east! Smith cat.
16 west. Syme sp.
17 Surrey!
18 Essex south.
19 north.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford.
25 Suffolk east. (Hind).
27 Norfolk east. Trimmer.
28 west?
32 Northton. Druce rec.
33 Gloster east?
36 Hereford. Watkins sp.
37 Worcester?
38 Warwick. Kirk sp.
39 Stafford. Fraser cat.
40 Salop. Bloxam ms.
47 Montgomery. (Hind).
49 Carnarvon. Bailey.
51 Flint?
52 Anglesea. Robinson cat.
53 Linc. south.
54 n. F. A. Lees rec.
55 Leicester. Bloxam sp.
58 Chester. Hunt sp.
59 Lanc. south. Goodlad hb.
60 west. (Linton).
61 York s. east?
62 n. east. Bloxam ms.
63 s. west. Carr rec.
64 m. west.
66 Durham.
67 Northumberl. Storey sp.
68 Cheviotland.
73 Kirkcudb. (McAndrew).
77 Lanark. Gourlie sp.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick. (Brotherston).
85 Fife. Syme cat.
87 Perth west.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Sturrock.
91 Kincardine. Syme sp.
[1 3 6 9 70 83 111; these are insufficiently vouched].

N.B. The note of interrogation is added to several of the counties named, to indicate the desirability of verification afresh. It is the *gramineus* of several botanists, a name variously applied, and so better given up.

1123 P. acutifolius.

9 Dorset. Mansel-Pleydell sp.
13 Sussex west. Borrer cat.
14 east.
16 Kent west.
17 Surrey! J. L. Warren ms.
20 Herts.
21 Middlesex. Groves.
27 Norfolk east.
54 Lincoln n. "Banks hb."
61 York s. east. (Herb. Smith).
62 n. east? "reported."

N.B. Distribution imperfectly ascertained; the plant itself perhaps confused with *obtusifolius*, under name of *gramineus*.

1123 P. zosterifolius, Schum.
(*P. compressus*, L., non Sm.)

18 Essex south. Varenne sp.
21 Middlesex. Irvine sp.
23 Oxford. J. L. Warren ms.
27 Norfolk east. E. bot. ed. 3.
29 Cambridge. Babington sp.
37 Worcester. Matthews.

38 Warwick. Kirk sp.
39 Stafford. Douglas sp.
55 Leicester. Bloxam sp.
56 Notts. Cooper sp.
57 Derby. Bloxam ms.
62 York n. e. (Herb. Smith).
89 Perth east. Arnott ms.
90 Forfar. Balfour sp.
[13 17 85; errors].

1124 Potamogeton crispus.

1 Corn. west. Cunnack cat.
3 Devon south. Briggs cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt ms.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! Seeley sp.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock sp.
26 west. Skepper.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south. Bloxam ms.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland. Oliver ms.
70 Cumberland. Oliver sp.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston.
81 Berwick.
82 Haddington?
83 Edinburgh! Lloyd sp.
84 Linlithgow.
85 Fife. Syme cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.

00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
09 Caith. Brown Campst. cat.
11 Orkney. (Fortescue.)
[112 Shetland; error?]

1125 P. perfoliatus.

Counties all, except 2 5 10 26 34 35 42 43 45 46 47 48 50 51 61 74 78 79 82 84 86 96 to 99 101 103 105 106.

1126 Potamogeton lucens.

3 Devon south.
6 Som. north! Withers ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south!
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 e. J. L. Warren ms.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! Salmon sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts.
21 Middlesex.
22 Berks!
23 Oxford. Warren ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. (Dr. Hind).
27 Norfolk east.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. (Herb. Mus. Brit.)
32 Northton! Notcutt cat.
33 Gloster east.
36 Hereford. Purchas sp.
37 Worcester.
38 Warwick. Kirk sp.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. "Motley."
49 Carnarvon. Robinson cat.
50 Denbigh. Bowman cat.
52 Anglesea.
53 Lincoln south!
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren sp.
59 Lanc. south.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. west. Baker sp.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland. Embleton cat.
70 Cumberland.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.
81 Berwick.
83 Edinburgh. Syme sp.
85 Fife. Boswell-Syme sp.
87 Perth west. Murray sp.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Fotheringham sp.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff.
99 Argyle. (Bolton King).
[10 111 112; errors?]

1126*P. salicifolius.

36 Hereford. Ley rec.

1126*P. decipiens.

6 Som. north. (Mrs. Hopkins).
36 Hereford. (Ley).
80 Roxburgh. (Brotherston).
81 Berwick. (Brotherston).
90 Forfar. (Sturrock).

1127 P. prælongus.

18 Essex south. Varenne ms.
19 north. Varenne sp.
22 Berks. Dyer sp.
23 Oxford. J. L. Warren ms.
25 Suffolk east. Stock sp.
27 Norfolk east.
29 Cambridge.
30 Bedford. Pryor.
37 Worcester ?
39 Stafford. Douglas sp.
40 Salop. (Beckwith).
53 Lincoln south.
62 York n. east ?
63 s. west ?
68 Cheviotland. Johnston ms.
69 Westmoreland. Borrer.
73 Kirkcudb. (McAndrew).
80 Roxb. Brotherston rec.
81 Berwick. Johnston ms.
83 Edinburgh ?
85 Fife. Boswell-Syme sp.
88 Perth m. Drummond-Hay.
89 east. (F. B. White).
90 Forfar. Balfour sp.
92 Aber. south. Dickie cat.
95 Elgin ?
96 Easterness. Stables sp.
09 Caithness. (Grant).
[17 64; errors ?]

1129 P. heterophyllus.

4 Devon north ?
7 Wilts north. Withers ms.
9 Dorset ?
12 Hants n.! J.L. Warren ms.
14 Sussex east.
15 Kent e. G. E. Smith cat.
17 Surrey !
18 Essex south.
19 north. Coleman ms.
20 Herts ?
22 Berks.
23 Oxford. Beesley cat.
26 Suffolk west.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester. Bloxam sp.
56 Notts.
58 Chester. J. L. Warren ms.
59 Lanc. south. Webb cat.
60 west. (Bailey).
61 York s. east.
62 n. east. Baker cat.
63 s. west. O. Moore sp.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Thompson sp.
69 Westmoreland.
72 Dumfries. Cruickshank sp.
73 Kirkcudbright. Gray cat.
74 Wigton. (E. J. Bennett).
75 Ayr. "P. Maclagan."
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles.
79 Selkirk. Farquharson cat.
81 Berwick. Syme sp.
85 Fife. Boswell-Syme sp.

87 Perth west. Brand (? sp.)
88 mid. (F. B. White).
89 east. (Sturrock).
90 Forfar. Croall sp.
91 Kincard. "Miss Boswell."
92 Aber. south. Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon (? sp.)
96 Easterness. Stables.
98 Argyle. (E. T. Bennett).
00 Bute. Turner.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
08 Suther. west. (Miller).
09 Caith. Brown Campst. cat.
11 Orkney. Syme sp.
12 Shetland. Tate cat. (? sp.)

N.B. This enumeration of counties is to be received with caution. Examples of the *pseudo-fluitans* state of *P. oblongus* are occasionally mislabelled as *heterophyllus;* and it is difficult to avoid confusion between this present and the next species, particularly among early or imperfect specimens in the herbarium.

1129*P. nitens.

67 Northum. Brotherston rec.
68 Cheviot. (Brotherston).
80 Roxb. Brotherston rec.
88 Perth mid. Syme sp.
89 east. (F. B. White).
90 Forfar. (Sturrock).
93 Aber. n. E. C. rep. 1870.
95 Elgin. "Wilson."
96 Easterness. "Stables."
00 Clyde-isles. Hunt sp.
11 Orkney. Syme.

N.B. Confused with the *lanceolatus* on the one side, and with *heterophyllus* on the other side. The doubts shown with some of the specimens (? sp.) cited under the preceding species are queries whether they ought to be assigned to this present species instead.

1129*P. Zizii.

52 Anglesea. Wilson.
69 Westm. (Bailey).
70 Cumberland. (Bailey).
73 Kirkcudb. (McAndrew).
79 Selkirk. (Renton).
80 Roxb. Brotherston rec.
87 Perth west. F. B. White.
89 east. (Dr. Traill).
90 Forfar. (Sturrock).

1130 P. lanceolatus.

29 Cambridge. Ar. Bennett sp.
52 Anglesea. Bowman sp.

N.B. Recorded from fourteen other counties also, but supposed to be misnomers in all of them.

1131 P. rufescens.

1 or 2 Cornwall ?
3 Devon south ?
5 Som. south. Collins ms.
6 Som. north. (Baker).
8 Wilts south. (Lynch.)
9 Dorset. Mansell-Pleydell.
11 Hants south. Groves sp.
12 n. (Beeb. & A. Bentt.)
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. Stevens sp.
17 Surrey !
19 Essex north. Hall sp.
20 Herts.
22 Berks.

24 Bucks. Britten " v. sp."
26 Suffolk west. (Dr. Hind).
27 Norfolk east.
29 Cambridge. Babington cat.
35 Monmouth. Conway cat.
37 Worcester. Matthews.
38 Warwick. Kirk cat.
40 Salop. Leighton sp.
45 Pembroke. Babington cat.
50 Denbigh. J.E. Bowman cat.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester. Bloxam sp.
58 Chester. G. E. Hunt sp.
59 Lanc. south. Merrick sp.
60 west. Linton cat.
61 York s. east.
62 n. east.
64 m. west. West rec.
65 n. west. Ward cat.
66 Durham. Norman sp.
67 Northumberl. Storey sp.
68 Cheviotland.
70 Cumberland.
72 Dumfries. Cruickshank sp.
73 Kirkcudb. (McAndrew).
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Twynam sp.
85 Fife. Boswell-Syme sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Balfour sp.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
02 Eb. south. Balfour cat.
09 Caith. Brown Campst. cat.

N.B. Some confusion has taken place between this species and the *pseudo-fluitans* state of *polygonifolius*, as also occasionally between this and *heterophyllus*, and even *lucens* and *prælongus*.

1132 P. " natans," Agg.

Counties all, except 34 42 43 46 48 70 74 78 86 97 103 104 105 107. But, as thus indicated, it must take in also many records which truly belonged to *polygonifolius*, long included with this species under the one name of " *natans*."

1132 P. natans (true).

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
8 Wilts south. Rogers rec.
10 Wight. More.
11 Hants south. J. Groves sp.
12 north ! Towns. cat.
14 Sussex east. Roper.
15 Kent east. Baker.
17 Surrey !
19 Essex north. Varenne ms.
20 Herts. Pryor.
21 Middlesex. J.L. Warren ms.
22 Berks !
23 Oxford. Pryor.
24 Bucks. Druce rec.
25 Suffolk e. Bloomfield cat.
27 Norfolk east. Trimmer flo.
28 west. Trimmer flo.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
32 Northton. Druce rec.
34 Gloster west. Ley rec.
40 Salop. (Herb. Mus. Brit.)
46 Cardigan. (Straker).
47 Montgomery. Ley cat.
48 Merioneth. (Reeves).
49 Carnarvon. Newbould ms.
53 Linc. south.
54 north. Fowler rec.
56 Notts. (Cooper).

58 Chester! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Webster rec.
62 n. east. Bailey rec.
63 s. west. F. A. Lees rec.
64 m. w. F. A. Lees rec.
67 Northumb. (Storey).
76 Renfrew. (Renton).
68 Cheviotland. Border flo.
69 Westm. (Ley).
70 Cumberland. Baker cat.
77 Lanark. Clydesdale flo.
80 Roxb. Brotherston rec.
81 Berwick. Border flo.
82 Haddington. (Miller).
83 Edinburgh. Balfour cat.
85 Fife. Boswell-Syme sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Sturrock.
92 Aber. south. (Mennell).
00 Clyde-isles. Clydes. flo.
08 Sutherl. west. (Miller).
09 Caithness. (Grant).
11 Orkney. Syme 1873.
12 Shetland. (Herb. Mus. Brit.)

N.B. Likely to occur in most of the other counties; but it has become necessary to reject all records made by botanists who either neglected or were insufficiently prepared to separate true *natans* from the more abundant *polygonifolius*.

1133 P. polygonifolius.

(*P. oblongus*, Vir.).

1 Corn. west. Scilly list.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Warren ms
12 Hants north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent east. Baker.
16 west. Groves.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne sp.
20 Herts.
21 Middlesex. Hind cat.
22 Berks! Britten cat.
25 Suffolk east. Paget sp.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Harris sp.
32 Northton. Notcutt cat.
34 Gloster west. Ley rec.
35 Monmouth.
36 Hereford.
37 Worces. (Herb. Mus. Brit.)
38 Warwick. Kirk sp.
39 Stafford.
40 Salop. "*fluitans.*"
43 Radnor. Jones cat.
45 Pembroke. H. L. Jones.
46 Cardigan. Atwood sp.
47 Montgomery. Ley cat.
48 Merioneth. Bailey rec.
49 Carnarvon. Hort sp.
50 Denbigh.
51 Flint. Lewis.
52 Anglesea.
53 Linc. south!
54 north. Fowler rec.
55 Leicester.
58 Chester. Hunt sp.
59 Lanc. south. Webb cat.
61 York s. east. "*fluitans.*"
62 n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees rec.
65 n. west. Baker sp.
66 Durham. Baker sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland! Hort ms.

70 Cumberland. Oliver sp.
71 Man. (Murray).
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. (Brotherston cat.)
80 Roxburgh. (Brotherston).
81 Berwick.
82 Haddington.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife. Boswell-Syme sp.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar! Sturrock.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north.
94 Banff.
96 Easterness!
98 Argyle. Balfour sp.
99 Dunbarton. Ch. Bab. ms.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Syme ms.
04 north. Lawson cat.
08 Suth. west!
09 Caithness. (Grant).
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

N.B. This is perhaps the commonest species of its genus, and seems likely to occur in every county; many of its localities having been recorded for the aggregate *natans*.

1134 P. plantagineus.

6 Som. north. (Herb. Borrer).
14 Sussex east. Roper.
15 Kent east!
20 Herts. Webb flo.
25 Suffolk east. Skepper flo.
26 west. (Dr. Hind).
27 Norfolk east. Stock sp.
28 west. Dr. Lowe.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
40 Salop. (Sergeantson).
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
49 Carnarvon. Robinson cat.
50 Denbigh. Babington.
54 Linc. north. F. A. Lees rec.
55 Leicester.
61 York s. east. Babington.
62 n. east. Bot. n. y.
65 n. west. Bot. n. y.
66 Durham. Bowman sp.
67 Northumberland. Oliver.
68 Cheviotland. New flo.
70 Cumberland. Hort ms.
81 Berwick. Border flo.
82 Haddington. Syme sp.
00 Clyde-isles. Babington.

[3 doubtful. 10 11 64 98 errors].

1135 Ruppia maritima, Agg.

Counties 1 2 3 4 5 6 9 10 11 13 14 15 16 18 19 27 28 29 41 44 45 48 49 50 51 52 58 59 62 66 67 68 70 73 74 75 82 90 91 94 95 96 97 101 102 110 111 112. In all these recorded under the aggregate name of *maritima*; and usually in such wise as to prevent an assignment of the localities specially to one of its two segregates treated below.

1135*Ruppia spiralis.

6 Som. north. Hort sp.
10 Wight. J. Groves sp.
11 Hants s. J. L. Warren rec.
13 Sussex west. Hunt sp.
14 east. Roper.
19 Essex north. Syme sp.
27 Norfolk east. Paget sp.
28 west. Fryer.
54 Linc. north. Fowler rec.
58 Chester. Warren & Webb.
62 York n. east. "Baker."
73 Kirkcudbright. Balfour sp.
11 Orkney ?

1135*Ruppia rostellata.

3 Devon south. Briggs sp.
4 north. Rogers rec.
5 Som. south. Coleman cat.
9 Dorset. Mansel-Pleydell sp.
10 Wight. More cat.
11 Hants south. Bromfield.
13 Sussex west. "Borrer."
14 east. Hemsley.
15 Kent east.
18 Essex south. Gibson flo.
19 north. Gibson flo.
28 Norfolk west. Syme sp.
29 Cambridge. Extinct ?
33 or 34 Gloster...? Eng. bot. 3.
45 Pembroke. Babington cat.
48 Merioneth. Ley cat.
58 Chester. Lewis rec.
67 Northum. R.B. Bowman sp.
68 Cheviotland. Storey sp.
73 Kirkcudbright. Syme sp.
82 Haddington. Eng. bot. 3.
91 Kincardine. D. Guide.
94 Banff. Dickie Guide.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
11 Orkney. Syme sp.

1136 Zannichellia palustris, Aggregate.

1 Corn. west. Curnow.
2 east. Pascoe cat.
3 Devon south.
4 north.
5 Som. south. Coleman cat.
6 north. Hort sp.
7 Wilts north. Flower cat.
8 s. J. L. Warren ms.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex w. J. L. Warren ms.
14 east. Norman sp.
15 Kent east !
16 west. Syme sp.
17 Surrey ! J. L. Warren ms.
18 Essex south. Varenne ms.
19 n. Greenwood sp.
20 Herts.
21 Middlesex. J.L. Warren ms.
23 Oxford. Beesley ms.
25 Suffolk east. Stock cat.
26 Suffolkwest. Skepper cat.
72 Norfolk east. Paget sp.
28 Norfolk west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north !
55 Leicester. Bloxam sp.
56 Notts.

57 Derby. Rev. A. Ley sp.
58 Chester. Miss Burton sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Moore flo.
62 n. east. Baker sp.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham. F. Hort sp.
67 Northumberl. Storey sp.
68 Cheviotland.
71 Man. J. Macnab ms.
75 Ayr.
76 Renfrew. Montgomery ms.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston.
81 Berwick.
82 Haddington.
83 Edinburgh. Lloyd sp.
06 Ross east. Syme sp.
11 Orkney. Syme sp.

1136*Zann. pedicellata.

2 Corn. east. Briggs.
3 Devon south. Briggs.
13 Sussex west.
14 east.
15 Kent east.
16 west.
28 Norfolk west. Fryer sp.
63 York s. west.
87 Perth west.

1136*Zann. polycarpa.

11 Orkney. Syme sp.

1137 Zostera marina.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south.
6 Som. north. Poole ms.
9 Dorset. Twining sp.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Gibson sp.
14 east. Roper.
15 Kent e. G. E. Smith cat.
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Purchas cat.
27 Norfolk east.
28 west.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
58 Chester.
59 Lanc. south.
62 York n. east. Baker ms.
66 Durham. Lawson sp.
67 Northumberl. Storey sp.
68 Cheviotland. Embleton sp.
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Lawson cat.
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Westerness. Ch. Bab. ms.
98 Argyle.
99 Dunbarton. Lyon sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Ch. Bab. cat.
06 Ross e. Dr. G. Johnston.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. "common."
12 Shetland. "common."

1137 Zostera nana.

1 Corn. west. Ralfs.
2 east. Briggs sp.
3 Devon south. Briggs sp.
6 Som. north. Trevelyan sp.
9 Dorset. Borrer sp.
10 Wight! More cat.
11 Hants south. Towns. cat.
13 Sussex west. Gibson sp.
49 Carnarvon. More.
52 Anglesea. Ascherson ms.
66 Durham. Trevelyan sp.
67 Northumberl. Storey sp.
75 Ayr. Prof. Arnott ms.
90 Forfar. "Carnegie!"
98 Argyle. "Nichol!"
00 Clyde-isles. Hennedy cat.
[111 Orkney list; an error].

1137*Naias flexilis.

89 Perth east. Sturrock.

1138 Lemna minor.

Counties all, except 42 43 74 78 88 89 97 105 107 108 110 112.

1139 Lemna gibba.

3 Devon south.
5 Som. south. Coleman cat.
6 north. Butler sp.
7 Wilts north. Preston ms.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north.
13 Sussex west. Borrer cat.
14 e. J. L. Warren cat.
15 Kent e.! G. E. Smith cat.
17 Surrey! Gibson ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Paget sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton!
34 Gloster w.! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
44 Carmarthen. Motley cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
77 Lanark. Hennedy cat.†
83 Edinburgh. Syme sp.
85 Fife? Syme ms. 1840.

1140 Lemna polyrhiza.

3 Devon south.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Withers sp.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 north!
13 Sussex west. Borrer cat.
14 east. Roper ms.
15 Kent e.! G. E. Smith cat.
16 west. Roper.
17 Surrey! Salmon sp.

18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Broome sp.
30 Bedford. Newbould ms.
31 Hunts!
32 Northton!
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas sp.
40 Salop. Bidwell sp.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. e. Baker "v. sp."
62 n. east.
63 s. west.
64 m. west.
77 Lanark. Arnott sp. Hen.†
83 Edinburgh. Balfour cat.

1141 Lemna trisulca.

1 Corn. west. Cunnack cat.
3 Devon south.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Withers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Warren ms.
15 Kent. e.! G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Mann sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
53 Linc. south!
54 north. Bogg cat.
55 Leicester. Church. Bab. sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.

63 York s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Norman cat.
67 Northum. R.B.Bowman sp.
68 Cheviotland.
70 Cumberland.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.†
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington ?
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling. "Hunt herb."
88 Perth mid. (F. B. White).
90 Forfar. Sturrock.
91 Kincardine. "Mr. Croall."
94 Banff. "Dr. Stewart."

1141*Lemna arhiza.

Wolffia arhiza.

15 Kent east.
17 Surrey ! Spicer ms.
18 Essex south.
21 Middlesex ! Syme sp.
[Hants ; an error].

1142 Arum maculatum.

Counties 1 to 70, except 42 46 48.
72 Dumfries. "Stevens."
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick. "wild."
83 Edinburgh. Balfour cat.
00 Clyde-isles. Hennedy cat.
09 Caithness. Nicolson cat.*
(71 85 87 90 92 94 95).

1142*Arum italicum.

1 Corn. west. Ralfs.
9 Dorset. (Ridley & Fawcett).
10 Wight. A. G. More sp.
11 Hants south.
14 Sussex east. Herb. Borrer.

1142*Calla palustris.

17 Surrey. Mrs. Gardiner sp.
N.B. This plant is not indigenous in England, although now so well established in a secluded pond, amid pine woods on the still non-enclosed common between Esher and Cobham, that it presents an equal semblance of genuine nativity as the *Hypericum elodes*, among which it creeps along the shallow margin of the pond. It is stated to have been planted there by "a medical man ;"—a statement which may well be credited, as medical men usually succeed only in doing mischief when unwisely they interfere with nature. This record is made here, to prevent future botanists being deceived by the doctor's reprehensible experiment in science.

1143 Acorus Calamus.

6 Som. north. Collins ms.
7 Wilts north. Flower cat.
9 Dorset. Pleydell ms. 1873.
11 Hants south. Towns. cat.
12 north. "Dr. White."
14 Sussex east.
17 Surrey ! Warren ms.
18 Essex south.
19 Essex north. Varenne ms.
21 Middlesex ! J.L. Warren ms.

22 Berks.
23 Oxford.
24 Bucks. Mrs. James sp.
25 Suffolk east. Stock sp.
27 Norfolk east.
30 Bedford. Hillhouse cat.
37 Worcester. (E. Lees).
38 Warwick. Kirk cat.†
39 Stafford.
40 Salop. "Dr. Lloyd.†"
55 Leicester. Church. Bab. sp.
56 Notts. Dr. Mitchell sp.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.* (3 4 13 20 29 33 or 34 37 41 47 60 65 75 76 77; introduced to these counties, or insufficiently vouched).

1144 Sparganium minimum.

10 Wight. "Bromf. herb."
11 Hants south. H. Groves sp.
15 Kent east. Baker.
19 Essex north. Gibson flo.
26 Suffolk west. Bunbury sp.
27 Norfolk east. Paget sp.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
35 Monmouth ? Authority lost.
36 Hereford. Purchas flo.
37 Worcester. E. Lees sp.
38 Warwick. Kirk sp.
41 Glamorgan. "Thompson.'
53 Linc. south. Fowler rec.
54 north. Fowler rec.
58 Chester. Robinson sp.
62 York n. east. Baker sp.
63 York s. w. F. A. Lees cat.
64 m. west. Baker bot.
65 York n. west. Baker bot.
70 Cumberland. Baker cat.
74 Wigton. Balfour sp.
75 Ayr ? Clydesdale flo.
76 Renfrew. Gourlie sp.
77 Lanark. Hooker sp.
83 Edinburgh. Balfour sp.
88 Perth mid !
90 Forfar. Croall.
92 Aber. south. Dickie cat.
98 Argyle. Clydesdale flo.
00 Clyde-isles. Clydesdale flo.
03 Ebudes mid. Ross cat.
07 Suth. east. Oliver sp.
08 west !
09 Caithness. Nicolson cat.

1144*S. affine.

17 Surrey. Borrer herb.
49 Carnarvon. Butler sp.
54 Lincoln north !
67 Northumberl. Storey sp.
70 Cumberland. Bailey rec.
88 Perth mid. R. Woods.
89 east. Dr. Syme.
91 Kincardine. E. B. 3.
92 Aber. south. Dickie sp.
94 Banff. Eng. Bot. ed. 3.
96 Easterness. Keith sp.
97 Westerness !
11 Ork. Miss Fortescue f. Syme.
12 Shetland. "Dr. Fleming!"
N.B. The earlier records for this or the preceding segregate were made under the aggregate name "*natans*"; and thus they cannot be assigned now specially to either one of the segregates. Besides the counties above enumerated, under one or other, the aggregate "*natans*" has been reported also from 5 6 7 9 20 25 28 39 40 50 51 52 55 56 59

61 66 68 69 72 73 79 80 81 82 84 85 87 93 95 99 104 105 106 110 112. The larger segregate of *natans*, that named *affine*, is so difficult to distinguish from the floating state of *simplex* that I now question it in Surrey, where it was believed to have been seen by myself near Pirbright; but only unreached in the water, and some years ago.

1145 S. simplex.

Counties all, except 5 35 46 47 48 74 78 79 82 84 86 88 89 96 97 99 101 104 105 107 108 110 112 [111]. Apparently scarce in North Britain, but included in the Caithness catalogue by Dr. Robert Brown, as also in that for Ross by the Rev. Dr. Gordon.

1146 S. ramosum.

Counties all, except 42 46 74 84 86 88 89 97 98 100 105 107 108.

1147 Typha latifolia.

Counties all in South and Mid Britain, except 4 6 35 42 43 48 60 61 71. In North Britain it is reported from 72 73 75 76 77 80 to 84; and as a doubtful native from 79 85 90 100 111.

1148 Typha angustifolia.

1 Corn. west. Cunnack cat.
2 Corn. east. Briggs.
3 Devon south. Briggs sp.
6 Som. north. Collins ms.
7 Wilts north.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south! J. R. Wise.
13 Sussex west. J. L. Warren.
14 east. Coleman cat.
15 Kent east!
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford. Beesley cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
41 Glamorgan.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. s. Fowler & Lees rec.
54 north. Thompson.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.

64 York m. west.
66 Durham. Storey sp.
67 Northumberland.
72 Dumfries. Gray cat.
73 Kirkcudbright. E. B. 3.
77 Lanark. "A. M. Dunlop."
83 Edinburgh Balfour ms.*
85 Fife. Arnott, "truly wild."

1149 Eriocaulon septangulare.

03 Eb. mid. "Dr. Macculloch."
04 north. Stables sp.

1150 Juncus filiformis.

69 Westmoreland. Ray.
70 Cumberland!
91 Kincardine. Dickie sp.
[21 58 88 111; errors].

1151 J. conglomeratus.

Counties all, except 74 97 98 99 105 107 108.

1151.*J. effusus.

Counties all, except 42 46 74 105 110.

1151*J. diffusus.

1 or 2 Cornwall?
6 Som. north. Hopkins sp.
7 Wilts north. Preston ms.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south. Bromf. ms.
13 Sussex west. Borrer cat.
15 Kent east. Baker.
17 Surrey! Borrer ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
26 Suffolk west. Skepper ms.
31 Hunts!
33 or 34 Gloster. Rev. A. Ley ms.
36 Hereford. Purchas sp.
37 Worc. Towndrow fid. More.
38 Warwick. Kirk cat.
54 Linc. n. R. H. Webb sp.
55 Leicester. Bloxam cat.
62 York n. east. Baker cat.
63 s. west? "Ilkley."
65 n. west. Baker sp.
67 Northumberl. Oliver sp.
68 Cheviotland. Oliver sp.
69 Westmoreland. Oliver sp.
87 Perth west. Bab. man.
[28 58 85 91; errors].

1152 J. glaucus.

Counties all in South and Mid Britain, except 24 33 42 46 47 48 61 71 74 84. In North Britain, reported as underneath:—
85 Fife. Syme cat.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid. Gordon ms.
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
93 Aber. north. Dickie flo.
00 Clyde-isles. Hennedy cat.
[111 Orkney; Miss Boswell].

1153 J. balticus.

85 Fife. I. B. Balfour ms.
90 Forfar. Gardiner sp.
91 Kincardine. Loch Drum.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff. "Cullen Sands."
95 Elgin. Gordon sp.

96 Easterness. Gordon sp.
06 Ross east. Syme sp.
08 Suth. west. Graham sp.
09 Caith. Brown Campst. cat.
10 Hebrides.

1154 J. maritimus.

1 Corn. west ! Bailey ms.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north !
5 Som. south. Coleman cat.
6 north. Collins ms.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt sp.
13 Sussex w. J. L. Warren cat.
14 east. Trevelyan sp.
15 Kent e. ! G. E. Smith cat.
16 west !
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Paget sp.
27 Norfolk east.
28 west.
41 Glamorgan. Withers ms.
44 Carmarthen. Motley cat.
45 Pembroke. Russell sp.
46 Cardigan. H. L. Jones cat.
48 Merioneth. Ley rec.
49 Carnarvon. Ley rec.
50 Denbigh. J.E. Bowman ms.
51 Flint !
52 Anglesea.
54 Lincoln north !
58 Chester ! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
60 west !
62 York n. east. Baker cat. co.
66 Durham. Storey sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate sp.
69 Westmoreland. Hind sp.
70 Cumberland. Bailey rec.
72 Dumfries. Gordon ms.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Landsborough bot.
76 Renfrew. Hennedy cat.
77 Lanark. Arnott ms.
85 Fife ? Mackay in E. F.
91 Kincardine. Murray.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
99 Dunbarton. Arnott ms.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.

1155 J. acutus.

1 Corn. west ?
3 Devon south.
4 north ! Maw cat.
6 Som. north. Collins ms.
13 Sussex west. Borrer ms.
15 Kent east ! Buckland sp.
25 Suffolk east.
27 Norfolk east.
28 west. Newbould ms.
41 Glamorgan. Woodward sp.
44 Carmarthen. Motley ms.
45 Pembroke. Russell sp.
48 Merion. J. E. Bowman ms.
49 Carnarvon. Ley rec.
[9 18 33 51 69 73 ; insufficiently vouched, and probably erroneous].

1156 J. acutiflorus.

Counties all, except 30 31 41 42 72 73 74 80 103 104 105 107 ; but likely to be found in every county, unless 30 and 31 should prove real exceptions to a comital generality.

1157 J. lamprocarpus.

Counties all, except 42 71 74 80 97 104 105 107; doubtless to be found in all of these seemingly exceptional counties.

1158 J. obtusiflorus.

1 Corn. west. Cunnack cat.
3 Devon south. Hutchison.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Bligh sp.
13 Sussex west. Borrer cat.
14 east. Roper ms.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey?
18 Essex south.
19 north. Varenne ms.
20 Herts. Isaac Brown sp.
22 Berks. Britten cat.
23 Oxford. J. L. Warren ms.
25 Suffolk east. Purchas ms.
26 west. Skepper cat.
27 Norfolk east. Stock cat.
28 west. Notcutt cat.
29 Cambridge. Baker sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east?
34 west. Thwaites cat.
36 Hereford. Purchas sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. J. E. Bowman sp.
43 Radnor. E. H. Jones cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman ms.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. Dr. Wood sp.
59 Lanc. south.
61 York s. east. Moore flo.
62 n. east. Baker sp.
64 m. west. "Moore."
65 n. west. Ward cat.
66 Durham. Rev. J. E. Leefe.
67 Northumberland.
73 Kirkcudb. G. Lloyd ms.
74 Wigton. Balfour sp.
76 Renfrew. Clydesdale flo.
77 Lanark?
82 Haddington. Balfour sp.
[83 84 90; errors?]

N.B. It is likely that these three do not exhaust the counties that have been erroneously reported for this rush, which seems to be occasionally confused with both *supinus* and *lamprocarpus*. The Surrey locality, given in 'New Botanist's Guide' on the authority of "Watson sp." was probably an error; the specimen being young, and paler and more divaricate than usual with *lamprocarpus*, it may have been mistaken at the remote date of 1834, and incorrectly assigned to the present species instead.

1159 J. supinus.

J. uliginosus.

Counties all, except 7 24 33 34 42 57 61 72 73 74 79 80 93 103 105; likely to occur in every county or nearly so.

1160 J. cœnosus.

J. Gerardi.

1 Corn. west. Scilly flo.
2 east.
3 Devon south. Briggs cat.
4 north ! Russell sp.
5 Som. south. Coleman cat.
6 north ? Thwaites cat.
9 Dorset. Mansel-Pleydell sp.
10 Wight ! Miss Twining sp.
11 Hants south ! Notcutt sp.
13 Sussex w. ! J. L. Warren cat.
14 e. J. L. Warren ms.
15 Kent east !
16 west !
18 Essex south.
19 north. Hall sp.
21 Middlesex. Crespigny.*
25 Suffolk east. Purchas ms.
27 Norfolk east.
28 west. Blow rec.
40 Salop ?
41 Glamorgan.
44 Carmarthen. Motley cat.
46 Cardigan. Jones rec.
48 Merioneth. Ley rec.
50 Denbigh. J. E. Bowman sp.
52 Anglesea.
53 Linc. south !
54 north !
58 Chester ! J. L. Warren cat.
59 Lanc. south ! Dickinson sp.
60 west !
61 York s. e. F. A. Lees rec.
62 n. east. Baker sp.
63 s. west. Parsons rec.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westm. F. A. Lees rec.
70 Cumberland.
74 Wigton. Balfour sp.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark.
81 Berwick.
82 Haddington. Syme sp.
83 Edinburgh ! Balfour cat.
84 Linlithgow. Brand sp.
85 Fife. Boswell-Syme sp.
90 Forfar.
91 Kincardine. Croall.
92 Aber. south.
93 north.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle !
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
04 Eb. north. Lawson cat.
09 Caithness. Grant.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.

N.B. This maritime segregate, and the other inland one more specially named "*compressus*," are distinguished with difficulty, and their localities are thus much confused. The true or segregate *compressus*, apart from *Gerardi*, occurs by the Thames in Surrey and Middlesex, the only counties in which it has been seen by myself. It has been reported also from the inland counties 7 17 21 22 23 30 32 36 37 39 40 55 56 63 65 80 89, as likewise from several of the maritime counties; but in these latter perhaps usually the *Gerardi* was the plant observed.

1162 J. bufonius.

Counties all, except 49 74 104 105; doubtless it occurs in

every county.

1163 J. squarrosus.

Counties all, except 31 33 35 36 47 71 72 74 105.

1164 J. castaneus.

88 Perth mid!
90 Forfar!
92 Aber. south! Dickie cat.
97 Westerness. Sadler rec.
99 Dunbarton? Balfour sp.
[3 South Devon, certainly an error. 66 Durham probably an error]. Dr. Balfour's specimen may have come from a locality in Argyle, not in Dunbarton.

1165 J. trifidus.

87 Perth w. F. M. Webb rec.
88 mid.
90 Forfar! Brand sp.
92 Aber. south! Dickie cat.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness!
98 Argyle. F. M. Webb rec.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
05 Ross west.
06 east. Gordon ms.
08 Suth. west!
11 Orkney?
12 Shetland.
[70 Robson in Phytol.]

1166 J. capitatus.

1 Corn. west. Beeby sp. 1872.

1166*J. pygmæus.

1 Corn. west. Beeby sp. 1872.
N.B. This should be looked for in other counties, as it may have been passed by for a small *bufonius*, to which it has much first glance resemblance.

1167 J. biglumis.

88 Perth mid! Hooker sp.
98 Argyle. F. M. Webb rec.
04 Eb north. Lawson sp.
[86 89 90 92 94 97 100].

1168 J. triglumis.

49 Carnarvon. Babington sp.
65 York n. west. "Planted."
66 Durham. Baker sp.
69 Westmoreland!
70 Cumberland!
86 Stirling. Hooker sp.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar! Brand sp.
92 Aber. south! Dickie cat.
96 Easterness!
97 Westerness. Sadler.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
05 Ross west. Ch. Bab. ms.
08 Suth. west. Campbell sp.
12 Shetland.

1169 Luzula sylvatica.

Counties all, except 8 13 25 26 31 32 42 46 74 78 100 105. Not frequent in the south-eastern counties; I have not seen it in Surrey or counties adjacent (West

Kent excepted), although it does occur locally in each of them.

1170 L. pilosa.

Counties all, except 42 48 60 74 78 79 89 98 104 105 108; probably in every county.

1171 L. Forsteri.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north!
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. G. E. Smith ms.
16 west!
17 Surrey! J. L. Warren ms.
18 Essex south.
20 Herts.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
34 Gloster west. Hort sp.
35 Monmouth. Hort ms.
36 Hereford. Purchas cat.
37 Worcester. Bloxam sp.
41 Glamorgan.
46 Cardigan.
[39 70 75 90; counties insufficiently vouched].

1172 L. campestris.

Counties all, except 41 46 53 74 79 98 102 103 105 107; doubtless to be found in every county.

1173 L. congesta.
L. multiflora.

Counties all, except 30 33 42 48 50 57 60 71 74 75 79 89 93 94 95 103 104 105 106 108 112; likely to be found in all, or nearly all of the counties, but liable to be passed by as if simply a form of *campestris*.

1174 L. arcuata.

89 Perth east?
90 Forfar?
92 Aber. south! Dickie sp.
94 Banff.
96 Easterness.
08 Suth. west. Campbell sp.

1175 L. spicata.

49 Carnarvon.
69 Westmoreland.
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid!
89 east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south! Dickie cat.
94 Banff. Gordon sp.
96 Easterness!
97 Westerness!
98 Argyle. Church Bab. ms.
04 Eb. north. Lawson cat.
06 Ross east. Gordon ms.
08 Suth. west! Graham sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
12 Shetland.

1176 Cyperus longus.

1 Corn. west. Cunnack, 1866.
6 Som. north. Flower ms.
8 Wilts south. F. White sp.
9 Dorset. Pleydell cat.
10 Wight! Bell Salter sp.
15 Kent e. G. E. Smith cat.
45 Pembroke. Babington cat.
[27 39; errors ?]

1177 C. fuscus.

17 Surrey! One locality.
21 Middlesex. Sown.
N.B. Dubiously native. [62]. The single Yorkshire locality is now admitted to be wrong; and as it was alleged to have been confirmed a second time, there would seem to have been imposition added to possible error in the first instance. Dr. J. E. Gray wrote to me that "Haworth never made a secret of sowing the *Cyperus fuscus*" in the Chelsea station; and he suspects that it "was equally sown at Godalming." The alleged Yorkshire specimens were sent to that county from the Shalford locality, between Guildford and Godalming.

1178 Cladium Mariscus.

1 Corn. west! Cunnack cat.
5 or 6 Somerset ... ?
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south. Bromf. ms.
15 Kent e. G. E. Smith cat.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east.
28 Norfolk west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
32 Northton. Extinct?
37 Worcester. Extinct.
38 Warwick.
39 Stafford. Howitt ms.
40 Salop. J. E. Bowman sp.
41 Glamorgan. Moggridge sp.
45 Pembroke.
46 Cardigan. (Straker).
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
58 Chester. Robinson sp.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. west.
66 Durham. R. B. Bowman sp.
68 Cheviotl. Richardson sp.
70 Cumberland.
74 Wigton.
81 Berwick.
90 Forfar. Extinct; E. B. 3.
08 Suth. west. Campbell sp.

1179 Schœnus nigricans.

1 Corn. west! Cunnack cat.
2 east. Pascoe cat.
3 Devon south. Rogers.
4 north.
6 Som. north. Thwaites ms.
9 Dorset. Pleydell cat.
11 Hants south. Winch ms.
17 Surrey.
18 Essex south. Extinct?
20 Herts.
22 Berks.
23 Oxford.
25 Suffolk east. Stock sp.
26 west. Bunbury sp.
27 Norfolk east. Paget sp.
28 west. Notcutt cat.

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29 Cambridge. Harris sp.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
37 Worcester. Extinct ?
38 Warwick.
39 Stafford.
41 Glamorgan.
45 Pembroke. Babington cat.
49 Carnarv. J.E. Bowman ms.
50 Denbigh.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
55 Leicester ?
56 Notts.
57 Derby. Howitt cat.
58 Chester, F. M. Webb sp.
60 Lanc. west. Bailey rec.
61 York s. east. Parsons rec.
62 n. e. Baker cat. co.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
70 Cumberland.
73 Kirkcudbright. Syme sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
85 Fife. Boswell-Syme sp.
90 Forfar.
91 Kincard. "Miss Boswell."
92 Aber. south. Dickie sp.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
97 Westerness ! Ch. Bab. ms.
98 Argyle.
00 Clyde-isles. Hooker sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Syme ms.
04 north. Lawson cat.
05 Ross west. Ch. Bab. ms.
06 east. Ch. Bab. sp.
07 Suth. east. Ch. Bab. sp.
08 Suth. west ! Ch. Bab. ms.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland.

1180 Rhyncospora alba.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 or 6 Som. Southby cat.
8 Wilts south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south ! Notcutt cat.
12 n.! J. L. Warren ms.
13 Sussex west. Borrer ms.
14 east. Coleman cat.
17 Surrey ! Warren ms.
22 Berks. Mrs. Russell sp.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
27 Norfolk east.
28 west. Bell ms.
29 Cambridge. "lost."
30 Bedford.
31 Hunts. Newbould cat.
35 Monmouth. Ley.
37 Worcester. Freeman.
38 Warwick. Kirk cat.
39 Stafford. Howitt sp.
40 Salop. Leighton cat.
41 Glamorgan. Dillwyn.
44 Carmarthen. Motley cat.
46 Cardigan.
48 Merioneth. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. n. Lees & Fowler.
55 Leicester ?
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.

62 York n. east.
63 s. west. Leyland sp.
64 m. west.
65 n. west.
66 Durham.
67 Northum. R. B. Bowman sp.
69 Westmoreland !
70 Cumberland. Stables sp.
72 Dumfries. Balfour sp.
73 Kirkcudbright. Gordon ms.
74 Wigton. Syme sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
87 Perth west. Croall rec.
88 mid. Balfour 1872.
90 Forfar.
91 Kincardine.
92 Aber. south.
93 north. Dickie flo.
94 Banff.
95 Elgin.
96 Easterness. Stables sp.
97 Westerness. Miss Twining.
98 Argyle. Gordon ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Ch. Bab. sp.
05 Ross west. Ch. Bab. sp.
06 east. Gordon cat.
07 Suth. east. Campbell sp.
08 west ! Graham sp.
10 Hebrides.
12 Shetland. One locality.
[East Lowlands ?]

1181 Rhyncospora fusca.

2 Corn. east ?
6 Som. north. Clark sp.
9 Dorset. Norman sp.
11 Hants south. Dyer sp.
41 Glamorgan
S. Wales. Henslow sp.
[42 62 ; both errors ?]

1182 Blysmus compressus.

6 Som. north. Withers ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Mansel-Pleydell sp.
11 Hants south.
12 north. Baker ms.
13 Sussex w. Rev. F. Arnold.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. D. Cooper sp.
19 Essex north.
20 Herts. Crespigny.
21 Middlesex ?
22 Berks. Britten cat.
23 Oxford ?
25 Suffolk east. Stock cat.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
32 Northton. Druce sp.
33 Gloster east. Roberts ms.
34 west. Stephens sp.
36 Heref. Purchas "sp. seen."
37 Worcester. E. Lees sp.
39 Stafford. Ch. Bab. ms.
40 Salop.
49 Carnarvon. Gibson ms.
51 Flint.
53 Lincoln south !
54 north. Fowler rec.
56 Notts.
57 Derby !
59 Lanc. south. Rylands sp.
62 York n. east. Baker cat.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. Baker sp.
67 Northumb. Makepeace sp.
68 Cheviot. Richardson sp.
69 Westmoreland !

70 Cumberland.
75 Ayr. Walker-Arnott ms.
76 Renfrew. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
00 Clyde-isles. Hennedy cat.
[1 3 73 99 102; insufficiently certified; and in the two latter counties the plant was *Blysmus rufus* thus misnamed].

1183 Blysmus rufus.

49 Carnarv. J. E. Bowman ms.
51 Flint. J. L. Warren ms.
52 Anglesea. Crotch sp.
54 Linc. north. Fowler rec.
58 Chester. J. L. Warren sp.
59 Lanc. south! Tudor sp.
66 Durham. R. B. Bowman sp.
68 Cheviotland. Tate cat.
70 Cumberland. R. Woods.
71 Man. Winch in N. B. G.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark.
81 Berwick.
82 Haddington. Balfour sp.
83 Edinburgh. Balfour cat.
84 Linlithgow ! Balfour cat.
85 Fife. Boswell-Syme sp.
90 Forfar. Gardiner sp.
91 Kincardine. Dickie ms.
92 Aber. south.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle. T. B. Bell sp.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hooker sp.
01 Cantire. Balfour cat.
02 Eb. south. Stables sp.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
05 Ross west.
08 Sutherland west !
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. "scarce."

1184 Scirpus lacustris.

Counties all, except 10 35 42 43 45 47 48 60 69 71 74 78 84 86 87 94 96 97 100 105 107; some few of which may be real exceptions to a comital generality. The two next are barely separable from this species.

1184 S. glaucus.
(*S. Tabernæmontani*, Gmel.)

1 Corn. west !
2 east. Briggs cat.
3 Devon south.
5 Som. south. Gifford sp.
7 Wilts north. Withers ms.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Brewer sp.
14 east. Roper.
15 Kent east !
17 Surrey. H. E. Fox sp.
18 Essex south.
19 north. Varenne ms.
21 Middlesex ? Extinct.
25 Suffolk east. Bloomfield.
27 Norfolk east.
28 west. Notcutt sp.
29 Cambridge. Babington cat.
38 Warwick. Kirk cat.
39 Stafford.

42 Brecon. Ley rec.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
48 Merioneth. Ley cat.
51 Flint. J. E. Bowman sp.
52 Anglesea.
54 Lincoln north !
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Parsons rec.
62 n. east. Baker sp.
63 s. west. Parsons rec.
66 Durham.
67 Northumberland.
73 Kircudbright.
76 Renfrew. Hennedy cat.
82 Haddington. Syme sp.
85 Fife. "David Don."
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
96 Easterness. Ley ms. 1873.
99 Dunbarton.
02 Eb. south. Balfour cat.
[31 63 111; errors ?]

1184 S. carinatus.

2 Cornwall east. Briggs.
3 Devon south. Briggs.
13 Sussex west. Borrer.
15 Kent e. G. E. Smith cat.
16 west. Syme sp.
17 Surrey ! Syme sp.
21 Middlesex. J. L. Warren ms.
[39 55; errors, apparently through mistaking the *sylvaticus* for this species].

1185 (1188) S. triqueter.

2 Cornwall east. Briggs.
3 Devon south. Briggs.
13 Sussex west.
17 Surrey. Syme sp. etc.
21 Middlesex.
[27 55; same error ?]

1186 (1191) S. sylvaticus.

2 Corn. east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers rec.
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset.
10 Wight ! More cat.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey ! J. L. Warren ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks !
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Bloomfield.
27 Norfolk west ?
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford ! Fraser cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.

61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northum. R. B. Bowman sp.
68 Cheviot. Embleton cat.
70 Cumberland. Baker cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.
81 Berwick.
83 Edinburgh. Brand sp.
85 Fife.
87 Perth west. Greville sp.
88 mid.
89 east!
90 Forfar. Croall sp.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie sp.
94 Banff.
98 Argyle. Hooker sp.

1187 (1190) **S. maritimus.**

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south! Briggs cat.
4 north! Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
13 Sussex w.! J. L. Warren cat.
14 east. Roper ms.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey. J. L. Warren sp.
18 Essex south.
19 north. Varenne ms.
21 Middlesex. J. L. Warren ms.
22 Berks. Britten.
25 Suffolk east.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
31 Hunts!
34 Gloster west! Thwaites cat.
35 Monmouth. Conway cat.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford. Fraser cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth. Hort ms.
49 Carnarvon. Bidwell sp.
50 Denbigh. J. E. Bowman cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north!
58 Chester! J. L. Warren cat.
59 Lanc. south! Tudor sp.
60 west!
61 York s. east.
62 n. east. Baker ms.
63 s. west. Parsons rec.
64 m. west. Parsons rec.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey rec.
70 Cumberland. Baker cat.
72 Dumfries. Gordon ms.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh? Ed. cat. 5.
84 Linlithgow!
85 Fife. Syme cat.
87 Perth west. Syme ms.
88 mid. (F. B. White).
90 Forfar.

91 Kincardine. Dickson sp.
92 Aber. south. Dickie cat.
93 north. Dickie sp.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hooker sp.
01 Cantire. Balfour cat.
02 Ebudes south. (Grieve).
03 mid. Ross rec.
04 north. Lawson cat.
06 Ross east. Gordon ms.

1188 (1185) S. Holoschœnus.

4 Devon north ! Flower sp. [5 9 11 37 70; not found now, and the two latter certainly errors, if the three former were once correct].

1189 (1186) S. setaceus.

Counties all, except 24 31 32 42 47 48 53 69 71 72 74 78 86 97 99 103 104 105 107 112.

1190 (1187) S. Savii.

1 Corn. west !
2 east.
3 Devon south.
4 north. Withers sp.
5 Som. south.
9 Dorset. Gibson sp.
10 Wight ! More cat.
11 Hants south ! Towns. cat.
25 Suff. east. Bloomfield ms.
27 Norf. east. "Rev. J. Downs."
41 Glamorgan. Withers ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Butler sp.
49 Carnarvon.
52 Anglesea. Babington sp.
59 Lanc. s. F. M. Webb sp.
71 Man. Forbes sp.
74 Wigton. Balfour sp.
75 Ayr. "G. Macnab."
00 Clyde-isles. Arnott ms.
01 Cantire. Balfour sp.
02 Eb. south. Balfour sp. [103].

1191 (1197) S. acicularis.

1 Corn. west. "Johns !"
3 Devon south.
6 Som. north. Thwaites ms.
9 Dorset. Pleydell cat.
11 Hants south.
12 north ! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
17 Surrey ! Coleman sp.
18 Essex south.
20 Herts.
21 Middlesex ! Borrer B. G.
22 Berks.
23 Oxford. J. L. Warren ms.
24 Bucks.
25 Suffolk east. Stock sp.
27 Norfolk east. Cooper sp.
29 Cambridge. Babington cat.
33 Gloster east.
34 west. Thwaites ms.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Bidwell sp.
41 Glamorgan.
42 Brecon. Ley rec.
43 Radnor. E. H. Jones cat.
48 Merioneth.
51 Flint !
52 Anglesea. Robinson cat.
55 Leicester. Bloxam sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east.

63 York s. west. Gibson sp.
64 m. west.
65 n. west.
66 Durham. Norman sp.
67 Northumberland.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
83 Edinburgh.
85 Fife. Boswell-Syme sp.
86 Stirling ?
87 Perth west. Syme "v. sp."
88 mid.
89 east.
90 Forfar.
00 Clyde-isles. Hennedy cat.
11 Orkney ? Lowe only ?
12 Shetland ?

1192 S. palustris.

Counties all, except 4 42 47 53 69 71 72 73 74 97 105 108; likely to be found in all.

1193 S. uniglumis.

9 Dorset. Pleydell cat.
10 Wight ! Rev. W. Spicer.
11 Hants south. Towns. cat.
13 Sussex west. Beeby sp.
14 east. Roper.
21 Middlesex ?
22 Berks. W. T. Dyer ms.
25 Suffolk east ? probably so.
47 Montgomery. Lawson.
58 Chester ! F. M. Webb sp.
59 Lanc. s. ! F. M. Webb sp.
60 west ? Chadwick sp.
67 Northumberland.
68 Cheviotland. Oliver sp.
82 Haddington. Syme sp.
84 Linlithgow. Syme sp.
85 Fife. Syme.
89 Perth east. (F. B. White).
91 Kincardine. Syme sp.
92 Aber. south. Dickie ms.
94 Banff. Gordon sp. (? co.)
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour sp.
02 Eb. south. Balfour sp.
03 mid. Syme ms.
10 Hebrides. "Babington."
11 Orkney. Syme.

N.B. Several of these counties and authorities are enumerated from the labels of specimens; but the plant is to me so unsatisfactory as a segregate that I am ill prepared to guarantee the usual "sp." here. Certainly it is occasionally recorded under the names of *palustris* or *multicaulis*. There are two sub-forms placed under this.

1194 S. multicaulis.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
8 Wilts south.
9 Dorset. Pleydell cat.
10 Wight ! Stratton sp.
11 Hants south ! Towns. cat.
12 n. ! J. L. Warren ms.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey ! Syme sp.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex ?

23 Oxford. "Boswell."
25 Suffolk east.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
38 Warwick. Bagnall sp.
39 Stafford.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Atwood sp.
48 Merioneth. Ley rec.
49 Carnarv. J.E.Bowman sp.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. n. F. A. Lees rec.
55 Leicester.
56 Notts.
58 Chester. J. L. Warren sp.
59 Lanc. s. F. M. Webb cat.
60 west?
61 York s. east.
62 n. east.
64 m. west. Tatham cat.
65 n. west.
67 Northum. R.B.Bowman sp.
68 Cheviotland.
70 Cumberland.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife. (Dewar) Gourlie sp.
86 Stirling. Croall rec.
87 Perth west.
88 mid. F.M.Webb rec.
89 east. (F. B. White.)
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin.
96 Easterness. Stables sp.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Ebudes mid. Ross cat.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!
09 Caith. Brown Campst. cat.
11 Orkney. Syme sp.

N.B. This enumeration of counties is to be accepted with some caution, the plant having been confused with the two preceding species. I reject my own notes, excepting those of recent date.

1195 S. pauciflorus.

1 Corn. west? Jones Tour.
3 Devon south. Parfitt ms.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
12 n. J.L. Warren ms.
13 Sussex west. Borrer cat.
15 Kent east?
18 Essex south.
19 north.
20 Herts.
23 Oxford.
24 Bucks.
25 Suffolk east. Bloomfield.
26 west.
27 Norfolk east. Stock sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.
34 Gloster west. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bagnall sp.
40 Salop. Leighton cat.
41 Glamorgan. Withers ms.

42 Brecon. Ley rec.
44 Carmarthen. Motley cat.
49 Carnarvon. (Griffiths).
50 Denb. J. E. Bowman cat.
52 Anglesea.
55 Leicester.
58 Chester! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east. O. Moore.
62 n. east.
63 s. west.
64 m. west. Baker sp.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland. Hort ms.
70 Cumberland! Baker cat.
72 Dumfries. Gray ms.
73 Kirkcudbright. Gray cat.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
79 Selkirk. Brotherston rec.
80 Roxb. Brotherston rec.
81 Berwick.
82 Haddington.
83 Edinburgh.
84 Linlithgow.
85 Fife.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar! Gardiner sp.
91 Kincardine. Syme sp.
92 Aber. south! Dickie sp.
95 Elgin. Gordon sp.
96 Easterness!
99 Dunbarton. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid. Ross cat.
06 Ross east.
08 Suth. west. Oliver sp.
09 Caith. Brown Campst. cat.
11 Orkney? Neill Tour.

N.B. Some confusion occurs between this plant and the *cæspitosus*, which is occasionally mistaken for it.

1196 S. cæspitosus.

Counties all, except 4 10 20 23 24 31 32 36 42 53 54 60 72 74 82 105. [21.]

1197 S. parvulus.

3 Devon south. Briggs sp.
9 Dorset. Mansel-Pleydell sp.
11 Hants s. Bolton King sp.

N.B. This diminutive plant should be looked for in muddy places on the south and west coasts, where its discovery may reward the botanical observers in other counties.

1198 S. fluitans.

1 Corn. west! C. Bailey ms.
2 east. Pascoe cat.
3 Devon south. Briggs cat.
7 Wilts north. Withers ms.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 n.! J. L. Warren ms.
13 Sussex west? Borrer co.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex.

22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Paget sp.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Marshall ms.
34 Gloster west. Thwaites ms.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. s. Carrington sp.
54 north. Fowler rec.
55 Leicester.
58 Chester! J. L. Warren ms.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Embleton cat.
70 Cumberland. Baker cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew.
77 Lanark. Hooker sp.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling.
88 Perth mid. Worsley cat.
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
08 Suth. west. Murray flo.
10 Hebrides.
11 Orkney. Syme cat.

1199 Eriophorum alpinum.

90 Forfar. Extinct.
08 Suth. west. Error?
N.B. There seems no reason for doubt that the Alpine cotton-grass was formerly a real constituent in our native flora. Thus, in the geographical view, it ought to be counted as a British plant, although consigned to the extinct category on present knowledge. Nor does there seem any improbability against a re-discovery of it somewhere in North Britain.

1200 E. vaginatum.

1 Corn. west.
2 east.
3 Devon south! Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
8 Wilts south.
11 Hants south.
12 north.
13 Sussex west.
14 east.
17 Surrey. Brewer sp.
23 Oxford.
27 Norfolk east.
28 west.
33 Gloster east?
35 Monmouth. Watkins sp.
37 Worcester.
38 Warwick. Kirk cat.

39 Stafford. Douglas cat.
40 Salop. Leighton sp.
41 Glamorgan.
42 Brecon.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Lees sp.
46 Cardigan.
48 Merioneth.
49 Carnarvon! Robinson cat.
50 Denbigh! J.E. Bowman cat.
51 Flint. Robinson cat.
55 Leicester?
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker sp.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northum. R. B. Bowman sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
Counties of Scotland all, except that my notes do not yield authorities for 74 78 105; likely to be found in all of these; and almost certainly seen by myself in some of them. Drainage is destroying it in South England, as is the case with various other bog and marsh plants. [10].

1200 E. angustifolium.

Counties all, except 34 42 47 60 74 105. Is 34, West Gloucester, a real exception to comital generality?

1201 E. latifolium.

1 Corn. west.
2 east?
3 Devon south. "Borrer."
4 north?
9 Dorset. Pleydell cat.
10 Wight. More cat. "v. r."
11 Hants south. Towns. cat.
12 north?
15 Kent e. G. E. Smith cat.
17 Surrey.
19 Essex north. Varenne cat.
20 Herts.
23 Oxford.
25 Suffolk east?
27 Norfolk east.
29 Cambridge?
30 Bedford?
32 Northon. Berkeley ms.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor.
52 Anglesea.
53 Lincoln south.
55 Leicester?
56 Notts.
58 Chester?
59 Lanc. south?
62 York n. east. Baker sp.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Trevelyan sp.
68 Cheviotland.
70 Cumberland.
72 Dumfries. Cruickshank sp.
73 Kirkcudbright. Gray cat.
77 Lanark. Hennedy cat.
81 Berwick.
83 Edinburgh. Balfour cat.
89 Perth east. (F. B. White.)
90 Forfar. "A. Croall."
96 Easterness. "Brodie herb."

05 Ross west. Ch. Bab. ms.
06 east. Gordon sp.
08 Suth. west. Graham sp.
N.B. Confused with the broader leaved states of the preceding species; several of the counties are queried in order to suggest the need of verification by more competent botanists than their present recorders.

1202 E. gracile.

11 Hants s. (Bolton King.)
17 Surrey! Borrer sp. Extinct.
65 York n. west. Borrer!
[13 37 49 88 90, requiring confirmation, likely errors.]

1203 Elyna caricina.
(*Kobresia caricina.*)

65 York n. west. Baker sp.
66 Durham. R. B. Bowman sp.
69 Westmoreland.
88 Perth mid!
[3 Jacob, in Flo. Dev.].

1204 Carex dioica.

Cornwall?
6 Som. north. Flower ms.
9 Dorset. Pleydell. Borrer.
12 Hants north?
13 Sussex west.
14 east.
17 Surrey.
19 Essex north?
20 Herts. Isaac Brown sp.
22 Berks. "Boswell."
23 Oxford. "Boswell!"
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Leefe sp. 1836.
30 Bedford.
33 Gloster east.
34 west. Thwaites cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh! Twynam sp.
85 Fife. Syme cat.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.

95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness.
98 Argyle. F. M. Webb rec.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
03 Ebudes mid. Ross rec.
04 north. Ch. Bab. sp.
06 Ross east. Gordon ms.
07 Suth. east. Stables sp.
08 west!
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate sp.
[10].

N.B. A scarce plant in the southern counties, and needing confirmation in several of those enumerated above. In some, it may have become extinct through drainage; as is said to be the case now in Cambridge. In others, the *pulicaris* has been mistaken for *dioica*; while *Scirpus fluitans* is stated by More to have been recorded for it in the Flora Vectensis. Its near ally *Carex Davalliana* may yet be re-found in Britain.

1205 C. pulicaris.

Counties all, except 16 26 42 47 53 71 72 74 82 84 105 107; but doubtless it may be found in most of these, if not in every one of them.

1206 C. pauciflora.

62 York n. east.
97 Northumberl. Winch sp.
72 Dumfries.
77 Lanark? very uncertain.
85 Fife.
86 Stirling.
88 Perth mid! Miller cat.
89 east! Brand sp.
90 Forfar!
91 Kincardine. Roy ms.
92 Aber. south! Dickie sp.
94 Banff. Roy ms. "rep."
95 Elgin. Gordon ms.
96 Easterness. Stables sp.
97 Westerness. Ley sp.
98 Argyle. Hooker sp.
99 Dunbarton. Balfour sp.
00 Clyde-isles. Balfour sp.
03 Ebudes mid. Ross rec.
04 north. Lawson cat.
06 Ross east. Gordon ms.
07 Suth. east. Graham sp.
09 Caithness. Nicolson cat.

1207 C. rupestris.

88 Perth mid.
90 Forfar.
92 Aber. south. Dickie sp.
08 Suth. west. Ch. Bab. sp. "on low rocks."

1208 C. incurva.

68 Cheviotland. Holy Island.
85 Fife. I. B. Balfour ms.
90 Forfar. Croall sp.
91 Kincardine. Dickie sp.
92 Aber. south. Stables sp.
93 north. Dickie flo.
95 Elgin. Gordon sp.
96 Easterness. Stables sp.
06 Ross east. Syme sp.
07 Suth. east.
08 west.
09 Caith. Brown Campst. cat.
12 Shetland.
[82 83 84 110; are these

correct ?]

1209 C. stellulata.

Counties all, except 4 31 42 51 71 74 78 105 107; likely to occur in every county, unless 31 is an exception.

1210 C. leporina.

(*C. lagopina*, Wahl.)

22 Aber. south. Dickie sp.

1211 C. ovalis.

Counties all, except 35 41 42 48 51 74 105.

1212 C. curta.

(*C. canescens*, L.)

2 Corn. east?
3 Devon south?
6 Som. north?
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Towns. cat.
11 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey!
22 Berks.
25 Suffolk east. Paget sp.
28 Norfolk west.
29 Cambridge. Babington cat.
34 Gloster west. Thwaites ms.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester.
57 Derby.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
62 York n. e. Baker cat. co.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Winch sp.
67 Northumberl. Storey sp.
68 Cheviotland.
69 Westmoreland.
70 Cumberland! Winch sp.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Macnab sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow?
85 Fife. Boswell-Syme sp.
86 Stirling.
87 Perth west. Syme cat.
88 mid. Ball sp.
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
98 Argyle?
99 Dunbarton?
00 Clyde-isles?
02 Eb. south.

N.B. This is indicated in the Clydesdale Flora as being "very common" in that district; and hence it is suggested (questionably) as occurring in 98 99 and 100. Lightfoot found it in 102.

1212 C. alpicola.
(*C. vitilis*, Fries.)

48 Merioneth.
49 Carnarvon. "Hort!"
62 York n. east. "Mudd!"
66 Durham. Baker sp.
70 Cumberland. Ley ms.
88 Perth mid! Arnott ms.
90 Forfar!
92 Aber. south. Syme sp.
06 Ross east. Bab. man.

1213 C. elongata.

13 Sussex west. Beeby sp.
16 Kent west. Borrer.
17 Surrey! very local.
19 Essex north. Bentall sp.
38 Warwick. Bagnall.
40 Salop. J. E. Bowman sp.
58 Chester. G. E. Hunt sp.
59 Lanc. south. Wood sp.
61 York s. east. Baker sp.
62 n. east?
63 s. west. "J. Hardy."
64 m. west?
[3, insufficiently vouched].

1214 C. remota.

Counties all, except 41 42 47 48 49 51 60 71 74 78 82 84 in South and Mid Britain. In North Britain it is recorded from about a dozen counties, as follows:—
87 Perth west. Syme cat.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar? "G. Don."
91 Kincardine. "J. Smith."
94 Banff. Stables sp.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle. J. H. Balfour.
99 Dunbarton. Balfour sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
06 Ross east. Stables sp.

1215 C. axillaris.

3 Devon south.
4 north.
6 Som. north. Flower sp.
7 Wilts north. Flower cat.
10 Wight. More sp.
11 Hants south. H. Groves sp.
13 Sussex west. Borrer sp.
15 Kent e. G. E. Smith cat.
17 Surrey! Syme sp.
18 Essex south.
19 north. Bentall sp.
20 Herts. Blow sp.
21 Middlesex.
25 Suffolk east. Stock sp.
26 west. Skepper cat.
27 Norfolk east. Fitt sp.
28 west.
29 Cambridge?
34 Gloster w. (W. R. Waterfall).
36 Hereford.
37 Worcester?
38 Warwick. Bromwich.
57 Derby. Bloxam ms.
58 Chester. J. L. Warren ms.
59 Lanc. s. Whitehead sp.
61 York s. east.
62 n. east.
63 s. west. H. Johnson.
64 m. w. F. A. Lees cat.
65 n. west.
[14 83 88; perhaps the next species only was intended in these three counties].

1216 C. Boenninghausen-iana.

3 Devon south. Briggs sp.

10 Wight. More sp.
13 Sussex west. "Borrer."
14 east. Coleman sp.
16 Kent west. More sp.
17 Surrey! Uncertain?
20 Herts.
38 Warwick?
47 Montgomery. Lewis ms.
58 Chester. Whitehead sp.
70 Cumberl. Rev. R. Wood.
83 Edinburgh. Balfour cat.
88 Perth mid.
89 Aber. north. Dickie flo.
94 Banff. Stables sp.

N.B. This is a very difficult plant, approximating to *axillaris* or *remota* on one side, and to the depauperized forms of *paniculata* on the other side. The Congleton examples have the "lower spikelets digitately compound" as in *axillaris*, while their glumes more resemble those of *paniculata* and the present species (?) by having "white scarious margins"; and thus they might be referred to either species, according to the character relied upon for diagnosis; but, on the whole characters, perhaps, Mr. Sidebotham's assignment of the Congleton plant to *Boenninghauseniana* was the better choice.

1217 C. intermedia.
(*C. disticha*, Huds.)

1 Corn. west.
3 Devon south.
5 Som. south. Flower sp.
7 Wilts north. Flower cat.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Reg. Pryor.
12 Hants north! Towns. cat.
13 Sussex west. Borrer cat.
14 e. J. L. Warren ms.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
23 Oxford. J. L. Warren ms.
25 Suffolk east. Paget sp.
26 west. Bunbury sp.
27 Norfolk east. Stock sp.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
34 Gloster west. Thwaites cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan. Barnard ms.
45 Pembroke. Purchas lre.
52 Anglesea. Robinson cat.
54 Linc. north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! Hunt sp.
59 Lanc. south!
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumb. Makepeace sp.
68 Cheviotland. Tate cat.
73 Kirkcudbright. Syme sp.
75 Ayr.

77 Lanark. Balfour sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston.
81 Berwick.
82 Haddington.
83 Edinburgh!
85 Fife.
86 Stirling. Croall cat.
87 Perth west! Syme cat.
88 mid.
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Dickie sp.
93 Aberdeen north. Watt.
02 Eb. south. Balfour sp.

1218 C. arenaria.

Counties all the maritime except 16 53 61 73 74 97 104 105 107; likely to occur in any of these. Inland it occurs in sandy ground in 17 Surrey and 26 West Suffolk.

1219 C. divisa.

1 Corn. west.
3 Devon south.
4 north.
5 Som. south. Coleman cat.
6 north. Withers sp.
9 Dorset. Pleydell cat.
10 Wight! More sp.
11 Hants south. Notcutt sp.
13 Sussex w.! J. L. Warren ms.
14 east. Roper cat.
15 Kent east. Hind sp.
16 west!
18 Essex south.
19 north. Varenne ms.
21 Middlesex. Crespigny.
25 Suffolk east. Skepper ms.
27 Norfolk east. G. Fitt ms.
28 west. Bell sp.
44 Carmarthen. Motley cat.
50 Denbigh. J. E. Bowman ms.
51 Flint. J. E. Bowman sp.
54 Lincoln north!
61 York s. east.
62 n. east. Bloxam ms.
63 s. w. F. A. Lees sp.
[17 64 67 83 90; insufficiently vouched, and likely to be errors].

1220 C. muricata.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Rogers rec.
5 Som. south. Coleman cat.
6 north. Withers sp.
7 Wilts north. Flower cat.
8 south. Rogers sp.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Duthie sp.
21 Middlesex! Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton! Druce.
33 Gloster east. Prentice cat.

34 Gloster west. Thwaites sp.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Fraser cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth. More.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman sp.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north!
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland. Tate cat.
70 Cumberland. Oliver sp.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh! Balfour cat.
84 Linlithgow.
85 Fife. Boswell-Syme sp.
86 Stirling. Duthie cat.
88 Perth mid.
89 east. (F. B. White).
91 Kincardine.
92 Aber. south. Dickie sp.
95 Elgin. Gordon cat.
99 Dunbarton. Balfour sp.
00 Clyde-isles. Hennedy cat.

1221 C. divulsa.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north. Gifford sp.
7 Wilts north. Flower cat.
8 south. Rogers rec.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Fordham sp.
21 Middlesex. Hind sp.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Purchas cat.
26 west. Skepper cat.
27 Norfolk east. Fitt sp.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Anderson ms.
34 Gloster west. Thwaites cat.
35 Monmouth. Hort sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Bagnall ms.
40 Salop. Leighton cat.
47 Montgomery. Warren sp.
50 Denbigh. J. E. Bowman sp.
52 Anglesea ?
53 Linc. south. Fowler rec.

55 Leicester. Bloxam cat.
57 Derby. Bloxam ms.
58 Chester. W. Webb ms.
62 York n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
[66 76 83; errors all?]

N.B. There being a state or form of *muricata* (the "*pseudo-divulsa*") which much resembles the present plant, it is possible that some of the enumerated counties may be on record through misnomers.

1222 C. vulpina.

Counties all, with many exceptions northward, namely, 35 42 43 47 48 69 71 to 74 78 79 80 88 93 94 96 to 99 105 106 107 108 109 111 112; likely to occur in several of these counties.

1223 C. teretiuscula.

3 Devon south.
6 Som. north.
7 Wilts north. Flower cat.
9 Dorset?
10 Wight. More sp.
11 Hants s. J. Groves rec.
12 north!
13 Sussex west.
15 Kent e. G. E. Smith cat.
17 Surrey. Brewer.
19 Essex north.
20 Herts.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell ms.
29 Cambridge. Babington cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Bloxam sp.
45 Pembroke.
52 Anglesea. Robinson cat.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. south. Hunt sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west.
64 m. west. Leyland sp.
55 n. west. Ward ms.
68 Cheviotland.
69 Lake Lanc. (Miss Hodgson.)
73 Kirkcudbright. Gray cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Macnab sp.
84 Linlithgow. Balfour cat.
85 Fife. Boswell-Syme sp.
87 Perth west. Croall rec.
89 east. (F. B. White).
90 Forfar. Croall sp.
92 Aber. south. Dickie sp.
95 Elgin. Gordon sp.
96 Easterness. Stables cat.
98 Main Argyle. Ross rec.
99 Dunbarton. Horn rec.
09 Caith. Brown Campst. cat.

1223*C. paradoxa.

27 Norfolk east.
61 York s. east. O. Moore sp.
64 m. west. Baker sp.

N.B. The specimens of this are accepted on faith, and cited accordingly. It has been reported for [3] South Devon, but only a single plant.

1224 C. paniculata.

1 Corn. west. Cunnack cat.
2 east. Wise sp.
3 Devon south. Briggs cat.
6 Som. north. Withers sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More sp.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks! Mrs. Russell sp.
23 Oxford.
25 Suffolk east. Paget sp.
26 west. Bloomfield.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east Roberts ms.
35 Monmouth. Conway cat
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Miss E. Jones sp.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke Babington cat.
49 Carnarvon. Robinson cat.
50 Denbigh J. E. Bowman cat.
52 Anglesea. Robinson cat.
54 Linc. n. F. A. Lees rec.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Tate ms.
69 Westm. Matthews.
75 Ayr. Arnott ms.
77 Lanark. Balfour sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour sp.
83 Edinburgh! Brand sp.
84 Linlithgow. Balfour cat.
85 Fife. Boswell-Syme sp.
90 Forfar.
92 Aber. south. Roy, 1872.
93 north. Roy ms.
95 Elgin. Gordon cat.
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Balfour sp.
03 Ebudes mid. Ross rec.
06 Ross east. Gordon cat.
08 Suth. west.
09 Caith. Brown Campst. cat.
11 Orkney. Syme cat.

1225 C. alpina.
(*C. Vahlii*, Schk.)

90 Forfar. Brand sp.
92 Aber. south! Wight sp.

1227 C. atrata.

49 Carnarv. J. E. Bowman ms.
69 Westm. Backhouse, 1871.
72 Dumfries. W. Stevens.
88 Perth mid!
90 Forfar! H. M. Balf. sp.

92 Aber. south! Dickie cat.
97 Westerness. Sadler.
98 Argyle. F. M. Webb rec.
[58 Chester; Bradbury].

1228 C. vulgaris.

Counties all, except 42 47 48 72 to 75 98 105 109; likely to be found in every county, but omissions may have occurred in lists through the changes of name from *cæspitosa* first to *Goodenovii* and then to *vulgaris*.

1229 C. rigida.

48 Merioneth. Ley rec.
49 Carnarvon! Ball sp.
65 York n. west. Baker sp.
66 Durham.
68 Cheviotland.
70 Cumberland! Baker cat.
72 Dumfries.
80 Roxburgh. Cheviot hills.
86 Stirling. Hooker sp.
87 Perth w. F. M. Webb rec.
88 mid!
89 east. (F. B. White).
90 Forfar!
92 Aber. south! Syme sp.
94 Banff. Gordon ms.
96 Easterness!
97 Westerness! Grieve.
98 Argyle!
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
06 Ross east. Gordon ms.
08 Suth. west! Graham sp.
10 Hebrides.
12 Shetland.
[4 50; insufficiently vouched].

1230 C. aquatilis.

68 Cheviot. Brotherston rec.
77 Lanark. Hooker sp.
79 Selkirk. Brotherston rec.
80 Roxb. Brotherston rec.
81 Berwick. Brotherston rec.
84 Linlithgow. Ed. bot. soc.
85 Fife.
89 Perth east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south. Croall sp.
93 north. Roy sp.
96 Moray. E. C. rep. 1870.
09 Caithness. Horn rec.
N.B. The plant of Caithness, Lanark, Linlithgow, Moray, Roxburgh, and the other lowland stations, is the segregate *Watsoni*;—though I could wish it known by a different name. The mountain plant of Aberdeen and Forfar, perhaps extending also into East Perth, is the other segregate held to be typical *aquatilis*. The specimens from Linlithgow came labelled as "*Carex stricta*."

1231 C. stricta.

6 Som. north?
9 Dorset. Pleydell cat.
13 Sussex west. Beeby sp.
15 Kent east! Syme ms.
18 Essex south.
19 north.
20 Herts.
27 Norfolk east. Stock cat.
28 west. Bell sp.
29 Cambridge. Harris sp.
33 Gloster east. Prentice cat.
34 west.
36 Hereford. Purchas cat.

37 Worcester.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. T. B. Bell sp.
41 Glamorgan. "Motley."
50 Denb. J. E. Bowman cat.
52 Anglesea. Robinson cat.
56 Notts.
58 Chester! J. L. Warren cat.
59 Lanc. south!
61 York s. east. "Spruce."
62 n. east. Baker sp.
64 m. w. F. A. Lees cat.
65 n. w. Ward cat.
66 Durham. Norman cat.
69 Westm. Bloxam. Borrer.
70 Cumberland. Matthews.
73 Kirkcudbright. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. Prof. Balfour.
00 Clyde-isles.

N.B. Perhaps the least well understood, and the most frequently misreported, among all the species of Sedge. The following counties cannot be received for it unless verified afresh :—2 3 31 67 83 84 85 90 95 98. [10 11]. *Carex acuta*, *Watsoni*, and often *vulgaris* have been mislabelled as *stricta*.

1232 C. acuta.

1 or 2 Cornwall?
3 Devon south?
4 north?
6 Som. north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlx.! J. L. Warren ms.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west?
27 Norf. east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould cat.
31 Hunts. Fryer sp.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west.
36 Hereford. Purchas cat.
37 Worcester. Maw sp.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Bloxam sp.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
46 Cardigan. H. L. Jones cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
52 Anglesea.
55 Leicester. Bloxam cat.
56 Notts.
58 Chester. J. E. Bowman sp.
59 Lanc. south.
61 York s. east.
62 n. east. Baker sp.
63 York s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. w. Ward sp.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland.
70 Cumberland. Matthews.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.

77 Lanark. Gourlie sp.
80 Roxburgh. Brotherston rec.
81 Berwick.
[83 84 90 91 92 93 95 96 98 100 102 109 111; all doubtful, though possibly some of these correct.]

1233 C. saxatilis, including *pulla and Grahami.*

86 Stirling ?
88 Perth mid! Hooker sp.
89 east.
90 Forfar. Graham sp.
92 Aber. south.
96 Easterness!
97 Westerness! Roy sp.
98 Argyle.
99 Dunbarton.
04 Eb. north.
08 Suth. west. Graham sp.

1234 C. flava, Aggregate.

Counties all, except 24 41 42 47 48 51 53 74 99 104 105 107.

1234*C. flava eu-flava.

4 Devon north!
11 Hants south! Towns. cat.
12 north! Towns. cat.
17 Surrey.
20 Herts. I. Brown sp.
23 Oxford. J. L. Warren.
26 Suffolk west. Duthie sp.
29 Cambridge. Harris sp.
32 Northton. Druce sp.
34 Gloster west. Purchas sp.
35 Monmouth. Purchas sp.
38 Warwick. Bromwich sp.
45 Pembroke. Jones rec.
46 Cardigan. Jones cat.
48 Merioneth. Ley cat.
49 Carnarvon. Butler sp.
52 Anglesea. Bloxam sp.
54 Linc. north. Fowler rec.
61 York s. east. Baker sp.
62 n. east. Baker sp.
67 Northumb. Makepeace sp.
69 Westmoreland. Bailey.
80 Roxburgh. "G. Macnab."
83 Edinburgh!
85 Fife. Boswell-Syme sp.
86 Stirling. Croall rec.
87 Perth west.
88 mid. Balfour sp.
89 east!
92 Aber. south. Druce rec.
96 Easterness!
98 Argyle!
00 Clyde-isles. Syme sp.
03 Ebudes mid. Ross rec.
11 Orkney. Syme sp.
Doubtless in many other of the counties.

1234*C. flava lepidocarpa.

2 Corn. east. Wise sp.
3 Devon south. Rogers sp.
8 Wilts south. Rogers.
10 Wight!
11 Hants. south! Towns. sp.
12 north! Towns. cat.
17 Surrey! J. L. Warren.
18 Essex south. Duthie sp.
25 Suffolk east. Paget sp.
26 west. Bunbury sp.
28 Norfolk west. Bell sp.
31 Hunts.
35 Monmouth. Ley rec.
36 Hereford. Ley sp.
37 Worcester. Matthews.
38 Warwick. Bagnall.
40 Salop. E. Jones sp.
46 Cardigan. Atwood sp.
47 Montgom. J. L. Warren.
49 Carnarvon. Ley rec.
52 Anglesea. Bloxam sp.

58 Chester. J. L. Warren.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
69 Westmoreland!
84 Linlithgow.
85 Fife. Boswell-Syme sp.
86 Stirling. Duthie cat.
87 Perth west. (F. B. White).
88 mid. (F. B. White).
89 east. (F. B. White).
29 Aber. south.
02 Eb. south. Grieve cat.
03 mid. Staples sp.
11 Orkney, Syme.
Perhaps in almost all the counties, and more frequent than *eu-flava* in the south.

1234*C. Oederi!

9 Dorset. Pleydell sp.
11 Hants south. Towns. sp.
12 n.! J. L. Warren sp.
17 Surrey!
29 Cambridge. F. Hort sp.
31 Hunts.
44 Carmarthen. Jones rec.
45 Pembroke. Jones rec.
48 Merioneth. Ley cat.
49 Carnarvon.
52 Anglesea. J. E. Bowman sp.
53 Linc. s. Lees & Fowler.
58 Chester.
59 Lanc. south. Whalley sp.
61 York s. e. F. A. Lees rec.
63 s. west. Carr rec.
75 Ayr. Arnott sp.
82 Haddington. Syme sp.
85 Fife. Syme sp.
87 Perth west. Drummond.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Gardiner sp.
96 Easterness. Ley rec.
11 Orkney. Syme sp.
N.B. Several other counties are on record nominally for this species, but in which it is supposed that *lepidocarpa* was thus misnamed; both may be found to occur in almost any of the counties, if distinctly looked for.

1235 C. extensa.

1 Corn. w.! Miss Warren sp.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north! Russell sp.
6 Som. north. Thwaites sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt sp.
14 Sussex east. Borrer.
15 Kent east!
19 Essex north.
25 Suff. east. Woodward sp.
26 west. "Gissing!"
27 Norfolk east. Paget sp.
28 west?
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. J. E. Bowman.
52 Anglesea. Robinson cat.
53 Linc. south.
54 north. Fowler rec.
58 Chester. J. L. Warren.
59 Lanc. s. F. M. Webb cat.
62 York n. east.
66 Durham. Storey sp.
68 Cheviotland. Tate.
69 Westm. Bailey rec.
70 Cumberland.
71 Man. Jowett sp.
73 Kirkcudbright. Syme sp.
74 Wigton. G. Macnab sp.
75 Ayr.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.

85 Fife. Boswell-Syme sp.
90 Forfar. Croall sp.
91 Kincardine. Grant sp.
94 Banff.
95 Elgin. Edmonston sp.
98 Argyle. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.
10 Hebrides.
11 Orkney. Lost? Syme cat.
[40 60 72; not certain.]

1236 C. pallescens.

2 Corn. east. Briggs sp.
3 Devon south. Briggs cat.
6 Som. north. Thwaites sp.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 e. J. L. Warren sp.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Kingsley sp.
22 Berks.
23 Oxford. Beesley ms.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Stock sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford.
40 Salop. Leighton cat.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Ley cat.
50 Denbigh. J. E. Bowman cat.
53 Linc. s. Lees & Fowler rec.
54 north. F. A. Lees rec.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. s. Webb cat.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Makepeace sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Hort ms.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine.
92 Aber. south! Dickie cat.
95 Elgin. Gordon cat.
96 Easterness!
97 Westerness!
98 Argyle!
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Stables sp.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!

09 Caithness. Ar. Bennett sp.
N.B. Scarce in the southern counties; frequent in the northern counties; and though widely spread it scarcely comes up to the grade of a "common plant."

1237 C. fulva.

C. speirostachya.

2 Corn. east. Briggs sp. 1872.
3 Devon south.
5 Som. south. Coleman cat.
6 north. Withers ms.
7 Wilts north. Withers ms.
8 south. Rogers.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south! Towns. cat.
12 n.! J. L. Warren ms.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
19 Essex north.
20 Herts. Isaac Brown sp.
22 Berks.
23 Oxford. J. L. Warren ms.
24 Bucks.
25 Suffolk east.
26 west. Bloomfield.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge. Babington cat.
32 Northton. Druce rec.
33 Gloster east. Notcutt ms.
35 Monmouth. Conway cat.
36 Hereford. Watkins sp.
37 Worcester.
38 Warwick. Bagnall sp.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
42 Brecon. Ley cat.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
48 Merioneth. Mrs. Russell sp.
49 Carnarvon. Butler sp.
50 Denbigh. J. E. Bowman sp.
52 Anglesea. Robinson cat.
54 Lincoln north. Fowler rec.
55 Leicester. Coleman cat.
57 Derby. Whitehead sp.
58 Chester.
59 Lanc. south. Wood sp.
61 York s. east.
62 n. east. Baker cat. co.
63 s. west.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Cruickshank sp.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick. Embleton ms.
83 Edinburgh! Balfour cat.
84 Linlithgow.
85 Fife. Dr. Dewar sp.
86 Stirling.
87 Perth west! Syme sp.
88 mid!
89 east!
90 Forfar! Balfour sp.
91 Kincardine.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness. Stables sp.
98 Argyle.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.

06 Ross east. Gordon ms.
08 Suth. west. Campbell sp.
10 Hebrides.
11 Orkney. Syme
[21 112; errors ?]

1238 C. distans.

1 Corn. west !
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north !
5 Som. south. Coleman cat.
6 north. Thwaites cat.
8 Wilts south. Rogers.
9 Dorset. Mansel-Pleydell sp.
10 Wight ! More cat.
11 Hants south. Towns. cat.
13 Sussex w.! J.L.Warren cat.
14 east. Trevelyan ms.
15 Kent e. G. E. Smith cat.
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman.
25 Suffolk east. Paget sp.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
33 Gloster east ?
34 west. Thwaites sp.
35 Monmouth. Ley rec.
36 Hereford. Ley rec.
38 Warwick. Bagnall rec.
44 Carmarthen. Motley cat.
45 Pembroke.
46 Cardigan. Jones rec.
48 Merioneth.
50 Denb. J. E. Bowman ms.
51 Flint !
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
58 Chester ! Dickinson sp.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker sp.
63 s. w. G.E. Smith rec.
66 Durham. Winch sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland. Bailey.
73 Kirkcudbright. Syme sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
82 Haddington. Balfour cat.
85 Fife. G. Macnab sp.
90 Forfar. Duthie sp.
91 Kincardine. Dickie sp.
94 Banff. Gordon sp.
98 Argyle.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour sp.
03 mid. Ross rec.
08 Suth. west. Campbell sp.
09 Caith. Brown Campst. cat.
11 Orkney ?
12 Shetland ?
[7 21 23 30 37 39 56 57 64 65 76 81 83; on record for "*distans*" so named, but all seem to require verification afresh]. There is certainly much confusion between this and *binervis*, on one side, and between this and *fulva*, on the other side.

1238 C. punctata.

1 Corn. west ?
2 east.
3 Devon south. Briggs sp.
9 Dorset. Pleydell sp.
11 Hants south. J. Groves sp.
45 Pembroke. C. Bailey sp.
52 Anglesea.
73 Kirkcudb. "Fraser" sp.
[70 Cumberland; very dubious].

1238*C. frigida.

92 Aberdeen south. Sadler.

1239 C. binervis.

Counties all, with many real or only seeming exceptions. My notes do not show authorities for it in the following counties,—8 23 30 31 32 37 41 42 46 47 56 60 61 71 72 74 84 105 107.

1240 C. lævigata.

1 Corn. west. Cunnack sp.
2 east. W. Wise sp.
3 Devon south. Hore sp.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight! Martin sp.
11 Hants south. Towns. cat.
12 north. Towns. cat.
13 Sussex west. "Borrer."
14 e. J. L. Warren cat.
15 Kent east. G. E. Smith cat.
16 west. More sp.
17 Surrey. Salmon sp.
18 Essex south.
19 north. Varenne sp.
21 Middlesex.
22 Berks.
23 Oxford. Beesley cat.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Ley cat.
52 Anglesea.
55 Leicester.
57 Derby. Whitehead.
58 Chester.
59 Lanc. south. Goodlad sp.
62 York n. east.
63 s. west. Johnson rec.
64 n. west. Tatham cat.
67 Northumberland.
68 Cheviotland. Johnston sp.
69 Westmoreland.
70 Cumberland. Hort ms.
72 Dumfries. Winch sp.
75 Ayr. Syme ms.
76 Renfrew. Balfour sp.
77 Lanark. Arnott ms.
79 Selkirk. Farquharson cat.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling.
88 Perth mid. Ley rec.
90 Forfar?
91 Kincardine. Roy ms.
92 Aber. south. Dickie cat.
96 Easterness. Roy "1871."
99 Dunbarton. Balfour sp.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour cat.
03 mid. Syme ms.

N.B. Possibly the localities about Lochwhinnoch and Loch-lomond may be placed under too many counties, namely, 76 77 and 86 99.

1241 C. panicea.

Counties all, except 42 74 100 105; but likely to occur in every county.

1241 C. vaginata.

88 Perth mid! Syme sp.
89 east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south! Croall sp.
96 Easterness.
99 Dunbarton.
08 Suth. west.

1242 C. depauperata.

6 Som. north. Norman sp.
16 Kent west.
17 Surrey. Salmon sp.
[3 90 99; erroneous as to the two last, and probably so for the first, although *depauperata* has been reported "frequent" in Devon].

1243 C. capillaris.

64 York mid west. West.
65 n. west. Bot. n. y.
66 Durham. Leefe sp.
70 Cumberland. "Miller."
72 Dumfries. "Stevens."
87 Perth west. Croall rec.
88 mid!
89 east. Hooker sp.
90 Forfar! Brand sp.
92 Aber. south! Dickie cat.
94 Banff. "J. Bissett."
98 Argyle. F. M. Webb rec.
06 Ross east. Stables sp.
08 Suth. west! Macnab sp.
12 Shetland. Edmonston flo.
[36 Hereford; an error certainly]. Cumberland and Dumfries may be said to require a second authority in confirmation.

1244 C. limosa, Aggregate.

Counties for one or other of the three segregates, so far as the records can be exactly assigned, are detailed nominally underneath; but some of the stations have been destroyed by drainage. The counties for the aggregate under some form are these: — [6] 9 11 25 27 28 37 39 40 41 50 52 58 59 62 63 64 65 67 68 69 70 72 73 75 77 80 81 84 85 87 to 90 92 94 96 98 99 104 108 109.

1244*C. limosa!

11 Hants south. "Borrer."
25 Suffolk east. Paget sp.
40 Salop. Jones rec.
58 Chester. J. L. Warren sp.
63 York s. west. Parsons rec.
80 Roxburgh. Brotherston.
81 Berwick. Brotherston.
84 Linlith. (Craig-Christie).
85 Fife. Hunter sp.
88 Perth mid. (F. B. White).
89 west. (F. B. White).
90 Forfar. G. Macnab sp.
99 Dunbarton. Gourlie sp.
08 Suth. west?

1244*C. irrigua.

9 Dorset. Pleydell ms.
50 Denb. J. E. Bowman sp.
67 Northumberl. Winch sp.
70 Cumberland.
72 Dumfries. Balfour sp.
73 Kirkcudbright. Gray sp.
77 Lanark.
85 Fife.
87 Perth west. Syme ms.
88 mid. D. Hay sp.
92 Aber. south. Dickie cat.
98 Argyle. Balfour sp.
99 Dunbarton. Hooker sp.

1245 C. rariflora.

90 Forfar!
92 Aber. south. Brand sp.
94 Banff.
96 Easterness.
08 Suth. west? *C. limosa?*

1246 C. strigosa.

6 Som. north. Withers sp.
7 Wilts north. Flower cat.
9 Dorset. Mansel-Pleydell sp.
10 Wight. Bell Salter sp.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex w. Borrer cat. co.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
17 Surrey.
18 Essex south.
19 north. Gibson sp.
20 Herts. Coleman sp.
21 Middlesex.
22 Berks.
23 Oxford.
26 Suffolk west.
27 Norfolk east. Stock cat.
28 west.
29 Cambridge ?
30 Bedford.
33 Gloster east. Prentice cat.
34 west. Hort sp.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
39 Stafford. Fraser cat.
40 Salop.
41 Glamorgan.
50 Denb. J. E. Bowman sp.
55 Leicester. Bloxam sp.
57 Derby. Bloxam sp.
58 Chester Bickham sp.
59 Lanc. south.
64 York mid. Tatham cat.
[3 75 83 106; likely to be errors; and some of the counties named are possibly in the same category].

1247 C. sylvatica.

Counties all, with many exceptions northwards; namely, 42 47 48 51 71 73 74 78 84 88 89 91 93 94 97 101 102 104 to 112. I have seen it in Forfar, and for higher numbers it is testified as under :—
92 Aber. south. Dickie Guide.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
98 Argyle. Clydesdale flo.
00 Clyde-isles. Hennedy cat.
03 Ebudes mid. Ross cat.

1248 C. pendula.

1 Corn. west.
2 east. Briggs cat.†
3 Devon south. Briggs cat.
6 Som. north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer cat.
14 east. Coleman sp.
15 Kent e. G. E. Smith cat.
17 Surrey. Coleman sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
23 Oxford.
25 Suffolk east.
26 west. Bell sp,
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Berkeley ms.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. "Wilmott."
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.

39 Stafford. Bagnall ms.
40 Salop. Bidwell sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Bloxam ms.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 Lanc. west. Linton cat.
62 York n. e. Baker cat. co.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Tate cat.
70 Cumberland.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! I. B. Balf. ms.
87 Perth west.
88 mid.
90 Forfar? Don only?
91 Kincardine. Croall sp.
92 Aber. south?
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.

1249 C. Pseudocyperus.

3 Devon south.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex w. J. L. Warren cat.
14 east. Coleman cat.
15 Kent e.! G. E. Smith cat.
16 west. Reynolds sp.
17 Surrey! Syme ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman sp.
21 Middlesex. Syme sp.
22 Berks!
23 Oxford. Beesley ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bunbury sp.
27 Norfolk east.
28 west. Miss Bell sp.
29 Cambridge. Babington cat.
31 Hunts. Fryer.
34 Gloster west. Thwaites cat.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Leighton cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
53 Linc. south. Fowler rec.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Bloxam ms.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Soutter.
95 Elgin. Gordon cat.†
02 Eb. south. Lightf. Scot.

1250 C. glauca.

Counties all, except 42 71 to 75 97 105 107 108; likely to occur in all of these.

1251 C. præcox.

Counties all, except 4 31 42 46 47 48 51 53 72 74 94 97 99 101 to 110; but likely to occur in all of these unless the numbers 101 to 110 should some of them prove real exceptions. Orkney, by Syme's list, and indicated as "common" in the Shetland Flora.

1251 C. ericetorum.

26 Suffolk w. Ar. Bennett sp.
28 Norfolk west. Ar. Bennett.
29 Cambridge. Syme sp.
N.B. A recent re-discovery; possibly this Sedge being passed by as *C. præcox* in other counties.

1251 C. montana.

3 Devon south. Briggs sp.
11 Hants south. Marquand.
14 Sussex east. Mitten sp.
34 Gloster west. Hort ms.
35 Monmouth. Purchas sp.
36 Hereford. Purchas sp.
37 Worcester. "Westcombe."

1252 C. pilulifera.

Counties all, except 6 13 24 31 33 42 45 46 47 51 53 60 69 71 74 82 84 94 97 101 102 105 106 107; perhaps simply overlooked in most of the counties thus enumerated.

1253 C. tomentosa.

7 Wilts north. Borrer sp.
[33 Buckman B. G. C.]

1254 C. humilis.

C. clandestina.

6 Som. north. Russell sp.
7 Wilts north.
8 south. Flower sp.
9 Dorset. Pleydell ms.
11 Hants s. (Townsend flo.).
34 Gloster west. Stephens sp.
36 Hereford.

1255 C. digitata.

3 Devon south. Stewart flo.
6 Som. north. Thwaites sp.
7 Wilts north. Withers sp.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Hort, in Phyt.
36 Hereford. Purchas cat.
56 Notts. Howitt flo.
57 Derby. Rogers rec.
62 York n. east. Baker sp.
63 s. w. G. S. Smith sp.
64 m. w. Carpenter sp.
65 n. w. Bot. n. y.
N.B. Devon and Notts of these may be correct, but confirmations would be desirable, in addition to the authorities cited for them.

1255*C. ornithopoda.

57 Derby. Whitehead.
64 York m. west. Herb. Borrer.

1256 C. filiformis.

3 Devon south.
6 Som. north. Clark sp.
11 Hants south. Borrer 1858.
25 Suffolk east. Paget sp.
26 west. Skepper cat.

27 Norfolk east.
28 west.
29 Cambridge. Harris sp.
31 Hunts. Newbould cat.
39 Stafford.
40 Salop. Bloxam sp.
52 Anglesea. Robinson cat.
54 Linc. n. F. A. Lees rec.
55 Leicester.
58 Chester. G. E. Smith sp.
61 York s. e. F. A. Lees rec.
62 n. east. Baker cat.
64 m. west.
65 n. west.
67 Northumberl. Winch sp.
68 Cheviotland.
69 Westm. "Mr. Miller."
70 Cumb. "Mr. Tweddle."
73 Kirkcud. Cruickshank sp.
75 Ayr. "Dr. Hope."
80 Roxb. Brotherston rec.
81 Berwick. Brotherston rec.
83 Edinburgh! Lloyd sp.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Croall sp.
92 Aber. south. Roy sp.
95 Elgin. "Mr. Borrer."
96 Easterness. Ley rec.
98 Argyle. Clydesdale flo.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
07 Suth. east. Excurs.
08 west. Stables sp.
[34; Swayne in B. G.]

1257 C. hirta.

Counties all, except 41 42 45 to 49 53 61 69 71 72 74 78 97 98 102 to 112. It will be noted that this frequent Sedge of England is absent apparently from the most northern counties.

1258 C. ampullacea.

Counties all, except 5 16 21 31 32 43 46 47 48 53 60 71 72 74 78 99 105 107; in very few of these does it seem likely to be really wanting. Occasionally it is mistaken for *versicaria*, much the less frequent species, especially in Scotland.

1258 C. involuta.

58 Chester. J. L. Warren sp.
N.B. This is here treated as a species apart, because so made in 'English Botany,' edition third, although hesitatingly. To my apprehension, it is too closely connected with *ampullacea*, by intermediate links, to warrant specific separation; although the Cheshire specimens (Warren, Bickham) look fairly separable while contrasted against the opposite extreme of *C. ampullacea*, apart from the intermediate forms.

1259 C. vesicaria.

2 Corn. east. Briggs cat.
3 Devon south. Briggs sp.
6 Som. north?
7 Wilts north. Withers ms.
9 Dorset. Pleydell cat.
11 Hants south.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east. Jeffrey.
17 Surrey!
18 Essex south.

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19 Essex north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex. J. L. Warren ms.
22 Berks.
23 Oxford.
25 Suffolk east.
26 west. Henslow ms.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
33 Gloster east.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Fraser cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. s. Lees & Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt sp.
58 Chester. J. L. Warren cat.
59 Lanc. south.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Makepeace sp.
68 Cheviotland.
69 Westmoreland.
70 Cumberland!
73 Kirkcudbright. Gray cat.
75 Ayr.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick. Embleton ms.
85 Fife. Dewar sp.
86 Stirling.
87 Perth west.
88 mid. Worsley cat.
89 east. (F. B. White).
91 Kincardine. Syme cat.
96 Easterness. Stables sp.
98 Argyle.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour sp.
03 mid. Ross rec.
[10 83 92; doubtful].

1260 C. paludosa.

1 Corn. west.
3 Devon south. Briggs sp.
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Salter sp.
9 Dorset. Mansel cat.
10 Wight. More sp.
11 Hants south. Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north. Leefe sp.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Leefe sp.
30 Bedford. Pryor.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.

37 Worcester.
38 Warwick. Bagnall sp.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
43 Radnor. E. H. Jones cat.
45 Pembroke?
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Whitehead.
58 Chester. J. L. Warren cat.
59 Lanc. south! Goodlad hb.
62 York n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. G. Macnab sp.
81 Berwick.
82 Haddington.
83 Edinburgh! Campbell sp.
88 Perth mid.
89 east. (F. B. White).
90 Forfar. Balfour sp.
91 Kincardine. Grant sp.
95 Elgin.
98 Argyle. Syme sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
06 Ross east. Stables sp.

N.B. Some confusion exists among the records for this species and *acuta*; also occasionally a confusion arises between this and *riparia*.

1261 C. riparia.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Notcutt cat.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Leefe sp.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Bagnall ms.
40 Salop.
41 Glamorgan.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
52 Anglesea. Robinson cat.

53 Linc. s. Fowler & Lees rec.
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Bailey rec.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland. Baker cat.
72 Dumfries. Cruickshank sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Brand sp.
85 Fife.
90 Forfar. Cowell sp.
91 Kincardine.
92 Aber. south.
93 north.
94 Banff.
[106 Ross, very doubtful].

1262 Leersia oryzoides.

11 Hants south. Bromf. sp.
13 Sussex west. Borrer sp.
17 Surrey! Linnell sp.

1263 Spartina stricta.

3 Devon s. Abraham ms.
10 Wight! More cat.
11 Hants s.! Notcutt sp.
13 Sussex west. Borrer ms.
15 Kent east. Croall sp.
18 Essex south. Syme sp.
19 north. Christy sp.
25 Suffolk east. Purchas cat.
27 Norfolk east.
28 west.
54 Lincoln north. Howitt sp.
[21 Midx. A misnomer].

1263 Spartina alterniflora.

11 Hants south! Bromf. sp.† Dr. Tate reports this from a second station; namely, "in great abundance, and apparently perfectly wild, at Hill Head Haven, at the mouth of the Titchfield stream, 1872." Likely it may gradually extend farther along the coast.

1263*Spartina Townsendi.

11 Hants s. (H. & J. Groves).

1264 Cynodon Dactylon.

1 Corn. west! Cunnack sp.
3 Devon south.
9 Dorset. Mansel-Pleydell sp.
(17 Surrey. Casual at Kew).

1265 Digitaria humifusa.

11 Hants south. Bromf. sp.
17 Surrey! Extinct?
25 Suffolk east.
27 Norfolk east. Stock sp.
28 west?
(62 92. Casual only?)

1267 Setaria viridis.

3 Devon south. Briggs cat.*
6 Som. north. Flower.*
10 Wight. F. Stratton ms.*
11 Hants south! Casual.
12 north! Casual.

14 Sussex east. Roper cat.
15 Kent east! Casual.
16 west. "Bossey."
17 Surrey! Several places.†
19 Essex north. Gibson flo.*
20 Herts. R. H. Webb flo.*
21 Middlesex. J. L. Warren.*
25 Suffolk east. Skepper flo.
26 west. "Eagle."
27 Norfolk east. Stock sp.
28 west. Trimmer flo.
29 Camb. (Relh.) Extinct?
34 or 35 Gloster... ? Brody sp.
38 Warwick. Bromwich sp.
49 Carnarvon. Robinson cat.†
51 Flint. Robinson cat.†
52 Anglesea. Robinson cat.†
58 Chester. J. H. Lewis sp.*
62 York n. east. Bot. n. y.*
63 s. w. Giss. "1859."
66 Durham. "ballast hills."
67 Northumb. "ballast hills."
80 Roxb. Berw. Proc. 1869.
92 Aber. south. "ballast, ext."

N.B. The counties for this grass have been enumerated in full, so as my notes show them. This is done by way of exemplifying the reported state of a plant which is gradually spreading about England, although most likely not an aboriginal native of this country. *Setaria verticillata* seldom occurs; and *S. glauca* is too impatient of frost to become anything better than a casual here.

1269 Phalaris arundinacea.

Counties all, except 42 43 71 74 105 108 110; very likely to occur in all of them.

1270 Anthoxanthum odoratum.

Counties all, except 41 72 74 105 107; almost certain to occur plentifully in all of them.

1270*Anthox. Puelii.

3 Devon south. Briggs sp.
11 Hants south. Towns. cat.
17 Surrey. J. Groves sp.
36 Hereford. Ley rec.
37 Worcester. Thompson rec.
39 Stafford. Fraser.*
58 Chester. Britten.
80 Roxb. Brotherston rec.*

1271 Hierochloe borealis.

90 Forfar. Extinct, if found.
00 Caithness. Rob. Dick sp.

1272 Phleum alpinum.

88 Perth mid!
90 Forfar!
92 Aber. south! Dickie cat.
96 "Garway moor"—Dickson.

1273 P. pratense.

Counties all, except 42 48 71 74 97 98 103 105 106 107; doubtfully indigenous in the North Isles, and perhaps also everywhere to the north-west of the Caledonian Canal. [110 111 112].

1274 P. arenarium.

1 Corn. west. Herb. hort. soc.
2 east. Pascoe cat.
3 Devon south. Rogers sp.

4 Devon north!
5 Som. south. Coleman cat.
6 north. Trevelyan sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants s. J. L. Warren ms.
13 Sussex w. J. L. Warren ms.
15 Kent e. G. E. Smith cat.
18 Essex south.
19 north. Varenne cat.
25 Suffolk east. Purchas cat.
26 west. Bunbury sp.
27 Norfolk east. Paget sp.
28 west. Bell sp.
29 Cambridge. Extinct?
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
46 Cardigan. Atwood ms.
48 Merioneth. F. Hort ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman ms.
52 Anglesea. Robinson cat.
54 Linc. north. Thompson ms.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat. co.
66 Durham.
67 Northumb. Storey sp.
68 Cheviot. Richardson sp.
71 Man. E. Forbes sp.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
85 Fife. Boswell-Syme sp.
90 Forfar. Croall sp.
91 Kincardine.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
[94 very uncertain. "Don."]

1276 P. Boehmeri.

18 Essex south.
20 Herts. Coleman sp.
26 Suffolk west. Bunbury sp.
28 Norfolk west. Wardale sp.
29 Cambridge. Henslow sp.
30 Bedford. Blow sp.
[33 Buckman b. g. c.].

1277 Alopecurus alpinus.

88 Perth mid.
89 east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south!
96 Easterness. Gordon ms.
06 Ross east. "Wilson."

1278 A. pratensis.

Counties all, except 42 48 60 69 71 74 97 102 105 (107) 108; scarce in the northern counties?

1279 A. geniculatus.

Counties all, except 42 47 48 71 74 97 105 107 108; almost certain to occur in all.

1280 A. fulvus.

3 Devon south. Tate ms.
5 or 6 Somerset.
7 Wilts north. Withers ms.
13 Sussex west. Newbould.
14 east. J. L. Warren.
17 Surrey! Linnell sp.
18 Essex south.
19 north. Bentall sp.
20 Herts.
21 Middlesex.
22 Berks!
26 Suffolk west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
31 Hunts. Newbould cat.

32 Northton. Notcutt cat.
36 Hereford. A. Ley sp.
37 Worcester. Maw sp.
38 Warwick. Bromwich sp.
39 Stafford ?
50 Denbigh. J. E. Bowman ms.
55 Leicester.
58 Chester. C. Bailey sp.
[62 85 90; authority bad.]

1281 A. bulbosus.

2 Corn. east. Briggs sp.
3 Devon south.
5 Som. south. Coleman cat.
6 north. Coleman sp.
9 Dorset. Pleydell cat.
10 Wight. Spicer sp.
11 Hants south. Roberts ms.
13 Sussex w. J. L. Warren sp.
14 e. J. L. Warren ms.
16 Kent west.
18 Essex south.
19 north. Duthie sp.
25 Suffolk east. Townsend sp.
27 Norfolk east.
28 west.
34 Gloster west. Thwaites sp.
35 Monmouth. F. Hort ms.
41 Glamorgan. Pleydell ms.
44 Carmarthen. Jones rec.
45 Pembroke. Bailey ms.
58 Chester. "Mr. Buxton!"
62 York n. east. Baker sp.
[66. Misnomer, *fide* Baker].

1282 A. agrestis.

2 Corn. east.
3 Devon south.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north! Towns. cat.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south. Christy sp.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks! Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Bloomfield ms.
26 west. Babington ms.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denbigh ?
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.†
59 Lanc. south.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.

64 York m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. "colonist."
70 Cumb. "T. Benson."
(Scotland 75 77 82 85 86 90 91 92; casual weed in corn fields, scarcely a colonist).

1283 Knappia agrostidea.

18 Essex south. Ever found?
52 Anglesea. J. E. Bowman sp.
82 Haddington. Syme sp.*
N.B. This diminutive grass is supplied with about a half-dozen of *aliases*. Stated to have been sown in Haddingtonshire, by Dr. Knapp, and to have become extinct there before 1868.

1284 Gastridium lendigerum.

1 Corn. w. Miss Warren sp.
2 east. W. S. Hore.
3 Devon south. Hore sp.
4 n. Bot. Dec., 1879.
5 Som. south. Coleman cat.
9 Dorset. Pleydell cat.
10 Wight! Bromfield sp.
11 Hants south. Notcutt cat.
13 Sussex west. Borrer cat.
14 east. Bromf. sp.
15 Kent east!
16 west.
17 Surrey! Coleman sp.
18 Essex south. Varenne ms.
19 north. Christy sp.
20 Herts.
26 Suffolk west? Dedham cat.
27 Norfolk east.
34 Gloster west. Thwaites sp.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Bloxam ms.
41 Glamorgan.
(80 casual). [50 51].

1285 Polypogon littoralis.

11 Hants south. Bromf. sp.
16 Kent west!
18 Essex south.
27 Norfolk east. Bloxam sp.
28 west.
(80 85). [9 Bell Salter].

1286 P. monspeliensis.

9 Dorset. Mansel-Pleydell sp.
11 Hants south. Bromf. sp.
16 Kent west!
18 Essex south. Bab. sp.
27 Norfolk east. Bab. sp.
28 west.
(1 3 10 21 34 64 80 85; more or less casual in these counties; and perhaps English only through introduction originally).

1287 Milium effusum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Townsend.
12 north. Towns. cat.
13 Sussex west. Borrer cat.
14 east. Bloomf. ms.
15 Kent e. G. E. Smith cat.
16 west!

17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
25 Suffolk east. Paget sp.
26 west. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
45 Pembroke?
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. n. F. A. Lees rec.
55 Leicester. Coleman cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.†
60 west. Linton cat.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. Storey ms.
68 Cheviotland.
70 Cumberland! Baker cat.
72 Dumfries?
73 Kirkcudbright. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Soutter rec.
80 Roxb. Brotherston rec.
81 Berwick.
83 Edinburgh! Lloyd sp.
84 Linlithgow. Balfour cat.
85 Fife.
87 Perth west. Drummond.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aber. south.
93 north.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
98 Argyle. Stables sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
[111 Orkney, msc. flo.]

1288 Apera Spica-venti.

Agrostis Spica-venti.

12 Hants north! Townsend.
13 Sussex west.
14 east Roper.
16 Kent west.
17 Surrey! Locally abundant.
18 Essex south. Varenne ms.
19 north. Varenne sp.
20 Herts. Coleman sp.
21 Middlesex. Hind cat.†
22 Berks.
24 Bucks.
25 Suffolk east. Varenne sp.
26 west. Skepper cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge. Babington cat.
30 Bedford.
63 York s. w. F. A. Lees rec. (38 40 41 50 56 58 59 61 62 64 66 83). [70 111].

1288 Apera interrupta.

Agrostis interrupta.

19 Essex north? "1843."
25 Suff. east?
26 west. Newbould sp.
28 Norf. west. Gibson sp.
29 Cambridge. Babington cat. (82 Haddington).

1289 Agrostis setacea.

1 Corn. west! Warren sp.
2 east. Pascoe cat.
3 Devon south. Briggs sp.
5 Som. south. Coleman sp.
9 Dorset. Bell Salter sp.
10 Wight! More sp.
11 Hants south! Bromf. sp.
12 n.! J.L. Warren ms.
14 Sussex east. Borrer ms.
17 Surrey! Bisley Common.
22 Berks. "Bagshot Heath."
41 Glamorgan. Withers ms. [50 Faun. Grust. 62 B.G.]

1290 A. canina.

Counties all, except 4 24 31 32 40 41 42 46 53 54 57 60 69 71 to 74 81 89 96 97 104 105 107 110; perhaps often overlooked or disregarded. [33].

1291 A. vulgaris.

Counties all, except 74 105.

1291*A. nigra.

37 Worcester. (Bagnall).
38 Warwick. (Bagnall).
39 Stafford. (Bagnall).
40 Salop. (Bagnall).

1292 A. alba.

Counties all, except 48 74 80 97 105 107; doubtless to be found in all.

1293 Psamma arenaria.

Ammophila arundinacea.

Counties all the maritime, except 16 34 35 53 71 74 76 77 87 88 89 97 98 99 103 to 107. [12].

1293 Psamma baltica.

68 Cheviotland. Holy Isle.

1294 Phragmites communis.

Arundo Phragmites.

Counties all, except 42 47 48 71 74 78 89 97 98 100 105 to 108. But I think to have seen it in Sutherland, either 107 or 108.

1295 Arundo Calamagrostis.

Calamagrostis lanceolata.

3 Devon south.
6 Som. north.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south.
13 Sussex west.
14 east. Roper.
15 Kent e. G. E. Smith cat.
17 Surrey?
18 or 19 Essex... ?
20 Herts. Coleman sp.
26 Suff. west. Bunbury sp.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Newbould cat.
32 Northton. Church. Bab. ms.
34 Gloster west. Thwaites cat.

37 Worcester ?
38 Warwick. Kirk sp.
39 Stafford.
40 Salop. J. E. Bowman sp.
41 Glamorgan.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Coleman ms.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees ms.
64 m. west.
55 n. west. Ward sp.
68 Cheviotland. Tate ms.
[70 83; probably errors in these two counties; and some of those before enumerated by name are too uncertain, through confusions between the present species and the next one].

1296 Arundo Epigejos.

3 Devon south! Briggs sp.
5 Som. south. Coleman cat.
6 north. Russell sp.
9 Dorset. Pleydell cat.
10 Wight. Miss Twining sp.
11 Hants south.
12 north.
13 Sussex west. Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
17 Surrey. Biden sp.
18 Essex south. Varenne ms.
19 north. Varenne sp.
20 Herts. Coleman sp.
21 Middlesex ?
22 Berks.
23 Oxford.
25 Suff. east.
26 west. Bunbury sp.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Harris sp.
32 Northton. Church. Bab. ms.
33 Gloster east. Prentice cat.
34 west. Flower sp.
36 Hereford. Purchas ms.
37 Worcester. E. Lees sp.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south.
54 north.
55 Leicester. Church. Bab. sp.
56 Notts.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Syme ms.
62 York n. east. Baker cat.
63 s. west.
64 m. w. F. A. Lees cat.
66 Durham.
67 Northumberland.
68 Cheviotland.
69 Westm. F. A. Lees.
70 Cumberland? Dubious.
75 Ayr. "Dr. G. Macnab."
85 Fife. Prof. Balfour.*
91 Kinc. Specimen seen; Syme.
92 Aber. south. Dickie sp.
03 Eb. mid. Gordon ms.
[80].

1298 Arundo stricta.

58 Chester. Bickham sp.
90 Forfar. Long extinct.
09 Caithness. Dick.

1299 Sesleria cærulea.

60 Lanc. west. Bailey rec.
64 York m. west. Tatham sp.
65 n. west.
66 Durham. J. E. Leefe sp.
68 Cheviotland. Tate sp.
69 Westmoreland! Bloxam.
70 Cumberland.
86 Stirling.
88 Perth mid!
05 Ross west.
[1 40 92; errors?]

1300 Aira cæspitosa.

Counties all, except 71 74 105 107; likely to be found in every county.

1301 A. alpina.

49 Carnarvon?
86 Stirling?
88 Perth mid! Balfour sp.
89 east. (F. B. White).
90 Forfar! Brand sp.
92 Aber. south! Syme sp.
94 Banff.
96 Easterness. Ley rec.
97 Westerness!
98 Argyle.
99 Dunbarton. Balfour sp.
08 Suth. west! Campbell sp.
10 Hebrides? "Harris isle."
[66 111; errors?] Very difficult to distinguish between this grass and the mountain states of the preceding; indeed, I am uncertain even in my own nomenclature of them, and suspect them both to be simply varieties of *cæspitosa*.

1302 A. flexuosa.

Counties all, except 31 41 42 60 71 74 82 84 105 107; likely to occur in all, or in nearly all of the counties.

1302*A. uliginosa.
(*A. setacea*).

11 Hants s. Groves & Marquand.
12 n.! J. L. Warren ms.
17 Surrey! J. L. Warren sp.
27 Norfolk east?
58 Chester. Miss Potts.
90 Forfar?
91 Kinc. Roy. ms. Sim sp.
92 Aber south. Roy ms.
07 Sutherland east.

1303 A. caryophyllea.

Counties all, except 41 42 48 54 61 71 74 98 105 107 110; doubtless simply overlooked in all or most of these counties.

1304 A. præcox.

Counties all, except 24 31 42 48 72 74 99 105; no doubt simply overlooked.

1305 A. canescens.
(*Corynephorus canescens.*)

25 Suff. east. Bloomfield ms.
27 Norfolk east. Paget sp.
28 west.
[5 or 6 9 10 15 56 75; errors?]

1307 Avena fatua.

Counties all the English, except 8 35 53 60 69 70.—Wales, reported in 44 46 49 50 51 52.—Scotland, in

75 77 80 to 83 85 87 88 89 91 92 94 95 96 111 112; but regarded as an introduced plant in nearly all of these.

1309 A. pratensis.

3 Devon south. Rogers rec.
4 north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. J. L. Warren ms.
19 Essex north.
20 Herts. Coleman cat.
21 Middlesex ?
22 Berks.
23 Oxford.
24 Bucks. J. L. Warren ms.
25 Suff. east ?
26 west. Bunbury sp.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Bagnall ms.
39 Stafford.
45 Pembroke.
50 Denbigh. J. E. Bowman ms.
52 Anglesea. Robinson cat.
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham sp.
65 n. west.
66 Durham.
67 Northumberl. Storey sp.
68 Cheviotland. Embleton cat.
70 Cumberland!
71 Man. Macnab cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh! Balfour cat.
85 Fife. Boswell-Syme sp.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid! Balfour sp.
89 east!
90 Forfar! Gardiner sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Gordon sp.
97 Westerness!
98 Argyle. Ross rec.
04 Eb. north. Lawson cat.
06 Ross east. Gordon cat.

N.B. It is suspected that Middlesex and some others of the southern counties may have been erroneously reported for *pratensis* instead of *pubescens*.

1310 A. pubescens.

1 Corn. w. "Miss Warren."
3 Devon south. Briggs cat.

6 Som. north. Russell sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Townsend.
12 north. Towns. cat.
13 Sussex west! Borrer cat.
14 east. Roper.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex. J. L. Warren ms.
22 Berks.
23 Oxford.
24 Bucks. J. L. Warren ms.
26 Suffolk west.
27 Norfolk east. Skepper cat.
28 west. Notcutt cat.
29 Cambridge. Baker sp.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
45 Pembroke. Babington cat.
49 Carnarvon.
50 Denb. J. E. Bowman sp.
51 Flint.
52 Anglesea. Robinson cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. s. F. M. Webb cat.
61 York s. east. O. Moore flo.
62 York n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham.
67 Northumberland.
68 Cheviotland. Baker cat.
69 Westmoreland.
70 Cumberland.
72 Dumfries. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow.
85 Fife. Boswell-Syme sp.
87 Perth west. Syme cat.
88 mid?
89 east. (F. B. White).
90 Forfar. Gardiner sp
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid.
05 Ross west. Church. Bab. sp.
09 Caith. Brown Campst. cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.

1311 A. flavescens.

Counties all those of England, except 35 46 71. In Scotland, authorities collected as underneath:
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.†
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick. "Common."

82 Haddingt. E.B.S. cat. "6."
83 Edinburgh! Balfour cat.
84 Linlithgow. B. & S. flo.
85 Fife. Syme cat.
86 Stirling! Near the castle.
87 Perth west. (F.B. White).
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. "G. Don."
91 Kincard. "Miss Boswell."
92 Aber. south. Dickie. Roy.†
95 Elgin. Gordon cat.*
00 Clyde-isles. Hennedy cat. [111 Orkney; Lowe].

1312 Arrhenatherum. avanaceum.

(*Avena elatior.*)

Counties all, 42 71 74 103 105 108; no doubt it is to be found in all of them; but it should be stated that the only specimen thus labelled, which I have seen from Shetland, was really *Avena pubescens*. Edmonston records it as being common in Shetland.

1313 Holcus lanatus.

Connties all, except 42 71 74 105; doubtless occurs in all. The Isle of Man 71 is a frequent exception for grasses and sedges, in consequence of Edward Forbes not entering them in the catalogue chiefly quoted as the authority for that island.

1314 Holcus mollis.

Counties all, except 31 42 46 47 48 60 71 74 97 99 105 107 108. A single locality given in the Flora of Shetland, and only the rather suspicious one of "Roddall" for Hebrides.

1315 Triodia decumbens.

Counties all, except 41 42 47 53 60 71 72 74 86 97 101 105 107; most of these being counties in which the lists of the commoner plants are least complete.

1316 Kœleria cristata.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs cat.
4 north.
6 Som. north. Trevelyan sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east! J. L. Warren.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north.
20 Herts. Coleman sp.
21 Middlesex!
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Bell sp.
27 Norfolk east.
29 Cambridge. Babington cat.
30 Bedford. Newbould cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.

36 Hereford.
37 Worcester.
38 Warwick. "Bromwich."
39 Stafford. Fraser cat.
41 Glamorgan.
46 Cardigan. Miss Atwood sp.
49 Carnarvon. Robinson cat.
50 Denbigh J.E.Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts. Carpenter sp.
57 Derby! Howitt cat.
60 Lanc. west. Pinder ms.
62 York n. east. Baker cat. co.
63 s. w. F. A. Lees cat.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland. Pinder ms.
70 Cumberland. Baker cat.
74 Wigton.
77 Lanark?
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie sp.
87 Perth west!
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
01 Cantire. Balfour cat.
02 Eb. south. Stables sp.
03 mid. Church. Bab. ms.
06 Ross east. Syme sp.
08 Suth. west! †
09 Caith. Brown Campst. cat.

N.B. This grass, so plentiful in many counties, remains in my lists without authority ascertained for forty of the counties, and is testified to as a rare plant only in some of the other seventy-two counties. Even the painstaking Authors of the Flora of Middlesex give only two localities in that well-searched county. I could, however, myself have recorded two others before 1866, the date of their first. Are the Rev. George Pinder's habitats of "Silverdale" and "Arnside" rightly placed under two vice-counties, 60 and 69?

1317 Melica uniflora.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north!
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west! Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west!
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.

21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. J. L. Warren ms.
24 Bucks. Britten cat.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan. Barnard ms.
42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen. Motley ms.
45 Pembroke. Jones rec.
47 Montgomery. Ley cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea! Robinson cat.
53 Linc. south. Fowler rec.
54 north.
55 Leicester. Coleman cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviot. Embleton cat.
69 Westmoreland! Hort ms.
70 Cumberland! Hort ms.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. James Wilson sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Brand sp.
84 Linlithgow. Balfour cat.
85 Fife. Syme.
86 Stirling. Croall rec.
87 Perth west. Syme cat.
88 mid. Worsley cat.
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south? "reported."
95 Elgin. Coll. Mor.
98 Argyle? Clydesdale flo.
00 Clyde-isles. Hennedy cat.
03 Mull. Ross cat.
[112 Shetland, 1 loc.]

1318 M. nutans.

33 or 34 Gloster...? Hort ms.
35 Monmouth. Purchas sp.
36 Hereford. "Wilmott."
37 Worcester. Matthews.
39 Stafford. Fraser cat.
40 Salop.
43 Radnor. Jones cat.
47 Montgomery. Melvill cat.
50 Denbigh?
56 Notts.
57 Derby! Church. Bab. ms.
58 Chester?
62 York n. east. Baker cat. co.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberland.

69 Westmoreland!
70 Cumberl. Thompson sp.
72 Dumfries. Gray cat.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
80 Roxb. Brotherston rec.
81 Berwick.
83 Edinburgh. Campbell sp.
84 Linlithgow. Balfour cat.
86 Stirling.
87 Perth west. Syme ms.
88 mid. Worsley cat.
89 east!
90 Forfar. Roy ms.
91 Kincardine.
92 Aber. south! Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Rutherford sp.
98 Argyle.
06 Ross east. Gordon sp.

1319 Molinia cærulea.

Counties all, except 16 33 42 60 72 74 78 99 105 107; seldom, if ever, really absent from a whole county.

1320 Catabrosa aquatica.

Counties all, except 1 4 35 41 42 43 44 46 47 48 60 71 73 74 75 76 78 79 80 84 86 88 89 97 98 105 106 107 108 109; likely to be found in most of these; perhaps not in all of them. A grass already ascertained in eighty counties, and extended from Cornwall to Shetland, can hardly be classed with the uncommon species, while its census is taken by counties; but this is on the whole a sparsely scattered grass; and one for which I do not find any authority to be cited under the North Highland province. Shetland; Tate sp.

1321 Glyceria aquatica.

1 Corn. west. Cunnack cat.
3 Devon south.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More ms. 1862.
11 Hants south! Notcutt cat.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e.! G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton! Notcutt cat.
33 Gloster east.
34 west. Thwaites cat.
35 Monmouth. Conway cat.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Douglas cat.
40 Salop. Bidwell sp.

41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke Babington cat.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
51 Flint!
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. E. Bowman ms.
59 Lanc. s. F. M. Webb cat.
60 west!
61 York s. east. Druce rec.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviot. Embleton cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
83 Edinburgh. Lloyd sp.
84 Linlithgow.
85 Fife. "Kilmenney."
86 Stirling. Croall cat.
87 Perth west. Syme ms.
88 mid!
90 Forfar. Stables sp.
92 Aber. south. Dickie.*
95 Elgin. Stables in N. F.
03 Mull. Ross cat.

1322 G. fluitans.

Counties all, except 71 74 84 105; very likely to be found in all.

1322 G. plicata.

1 Corn. west. Scilly flo.
2 Corn. east. Briggs sp.
3 Devon south. Briggs cat.
5 Som. south. Coleman cat.
6 north. Withers ms.
7 Wilts north. Preston ms.
9 Dorset. Pleydell cat.
10 Wight. More sp.
11 Hants south! Townsend.
12 north! Townsend.
13 Sussex w. J. L. Warren cat.
14 east. Roper.
15 Kent east!
16 west. Sansom sp.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts.
21 Middlesex J. L. Warren ms.
22 Berks!
25 Suffolk east. "Skepper."
26 west. "Skepper."
28 Norfolk west.
29 Cambridge. Douglas sp.
31 Hunts. Newbould cat.
33 or 34 Gloster... ? Hort ms.
35 Monmouth. Ley rec.
36 Hereford. Purchas sp.
37 Worcester. Matthews.
38 Warwick. Bromwich sp.
39 Stafford. Douglas sp.
40 Salop. Leighton cat.
51 Flint!
53 Lincoln south!
55 Leicester. Coleman cat.
58 Chester. J. L. Warren cat.
59 Lanc. south!
62 York n. east. Baker sp.
63 s. west.
64 m. w. F. A. Lees rec.
65 n. west.
66 Durham. Hort ms.
67 Northumberland.
68 Cheviotland.
80 Roxb. Brotherston rec.
81 Berwick.
82 Haddington. Syme ms.

84 Linlithgow. Syme ms.
85 Fife. Boswell-Syme ms.
86 Stirling. Croall cat.
88 Perth mid. (F. B. White).
11 Orkney ? "doubtful."

N.B. The specimens which I have seen labelled as being the "*pedicellata*" (Townsend) look like connecting links between this and the preceding grass, though nearer to *fluitans* of the two. The recent-ness of this segregate, and its close resemblance to *fluitans*, may lead to it being often passed by unnoticed. Likely, it is common, and spread more generally than the above enumeration of counties might seem to imply.

1323 Sclerochloa maritima.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
13 Sussex w. J.L. Warren cat.
14 east. Gibson ms.
15 Kent e. G. E. Smith cat.
16 west!
18 Essex south.
19 north. Varenne ms.
25 Suffolk east. Bloomfield.
27 Norfolk east.
28 west.
29 Cambridge. "Marshall."
34 Gloster west. Stephens sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north.
58 Chester. J. L. Warren ms.
59 Lanc. s.! F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat. co.
63 s. west.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
72 Dumfries. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Lloyd sp.
84 Linlithgow.
85 Fife. Syme cat.
87 Perth. Syme ms.
90 Forfar.
91 Kincardine. Dickson ms.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
98 Argyle. Gibson ms.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
04 north.
05 Ross west.
06 east. Syme sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.

1324 S. distans.

1 Corn. west.
2 east.
3 Devon south. Briggs cat.

4 Devon north! Maw cat.
6 Som. north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Townsend.
13 Sussex w.! J. L. Warren cat.
14 east! Roper cat.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey? Probably so.
18 Essex south.
19 north. Varenne sp.
21 Middlesex. Dyer sp.
25 Suffolk east. Skepper cat.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
34 Gloster west! Thwaites cat.
36 Hereford. Purchas ms.
37 Worcester.
41 Glamorgan.
50 Denbigh. J. E. Bowman ms.
51 Flint! J. E. Bowman sp.
53 Linc. south. Fowler rec.
54 north!
55 Leicester. Bloxam sp.
56 Notts. Kirk sp.
58 Chester. J. L. Warren sp.
59 Lanc. s.! F. M. Webb cat.
61 York s. east. Johnston.
62 n. east. Baker sp.
63 s. west.
64 m. w. Hailstone sp.
65 n. west.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland.
70 Cumberland. Oliver sp.
83 Edinb.? B. S. Ed. cat. 5.
85 Fife! Boswell-Syme sp.
87 Perth west. Syme sp.
89 east. (F. B. White).
90 Forfar. Gardiner flo.
09 Caith. Brown Campst. cat.
12 Shetland. Tate cat.

N.B. Desirable to re-verify some of the Scottish counties. Occasionally seen inland, although chiefly a coast plant.

1324*S. Borreri.

3 Devon south. Briggs sp.
9 Dorset. Pleydell ms. 1873.
10 Wight. More sp. Borrer.
11 Hants south. Borrer.
13 Sussex w. J. L. Warren sp.
15 Kent east. Blow rec.
16 west. French sp.
18 Essex south. Syme sp.
19 north. Varenne sp.
25 Suff. e. Newb. ms. 1869.
27 Norfolk east. Jordan rec.
62 York n. east. Bot. n. y.

N.B. Notwithstanding the specimens kindly supplied to me, as above cited, even yet I do not properly understand this alleged species; perhaps through not having seen it living, unless at old dates when it would be passed as *maritima* or possibly *distans*.

1325 S. procumbens.

1 Corn. west.
2 east. Briggs cat.
3 Devon south. Briggs cat.
6 Som. north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Townsend.
13 Sussex west.
14 e. J. L. Warren ms.
15 Kent east. Crespigny sp.
16 west! Bossey ms.
18 Essex south. Varenne ms.
19 north. Varenne ms.
25 Suffolk east. Paget sp.
27 Norfolk. Ar. Bennett.

34 Gloster west. Thwaites sp.
35 Monmouth. Hort sp.
45 Pembroke?
58 Chester.. J. L. Warren ms.
59 Lanc. south. Tudor sp.
62 York n. e. Baker cat. co.
66 Durham. Ward sp.
67 Northumberl. Storey sp.†
68 Cheviotland. "native."
[75 81 83 90; doubtful].

1326 S. rigida.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Townsend.
13 Sussex west! Borrer cat.
14 e.! J. L. Warren ms.
15 Kent e.! G. E. Smith cat.
16 west!
17 Surrey! J. L. Warren ms.
18 Essex south. Varenne ms.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 west. Skepper cat.
27 Norfolk east. Babington.
28 west. Notcutt cat.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 Gloster west! Thwaites cat.
35 Monmouth. Bailey rec.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth. Britten.
49 Carnarvon. Robinson cat.
50 Denbigh. Bidwell sp.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Lincoln south!
54 north!
55 Leicester.
56 Notts.
57 Derby! Howitt cat.
58 Chester.
59 Lanc. south.
61 York s. east.
62 n. e. Baker cat. co.
63 s. w. F. A. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
68 Cheviot. Embleton cat.
83 Edinburgh! Balfour cat.
85 Fife. Boswell-Syme sp.
87 Perth west. Syme cat.
90 Forfar. Croall sp.
91 Kinc. Sim to Lewis sp.
06 Ross east. Syme sp.

1327 S. loliacea.

1 Corn. west. Cunnack sp.
2 east. Briggs cat.
3 Devon south. Briggs cat
4 north.
6 Som. north. Collins ms.
9 Dorset. J. Ray sp.
10 Wight! More cat.
11 Hants south. Townsend.

13 Sussex w. J.L. Warren cat.
14 e. J.L. Warren ms.
15 Kent east! French sp.
18 Essex south. Crespigny sp.
19 north.
25 Suff. east. Bloomfield cat.
27 Norfolk east. Babington.
28 west.
29 Cambridge. Extinct?
41 Glamorgan. Withers ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan.
48 Merioneth. Russell sp.
51 Flint.
52 Anglesea.
54 Linc. north. Whitehead sp.
58 Chester. J. L. Warren.
59 Lanc. south.
60 west.
62 York n. east. Baker sp.
66 Durham.
67 Northumb. Storey sp.†
68 Cheviotland.
70 Cumb. Rev. F. Addison sp.
71 Man. Carrington sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
83 Edinburgh. Brand (?) sp.
85 Fife! Lloyd sp.
[90 110 111; errors?]

1328 Poa annua.

Counties all, except 71 74 105 107; doubtless common in every county.

1329 P. bulbosa.

3 Devon south. Briggs sp.
10 Wight. Bromfield sp.
13 Sussex west.
14 east.
15 Kent east.
25 Suffolk east.
27 Norfolk east. Fitt sp.
[Tregantle, Cornwall, Surrey and Middlesex have also been recorded for this local grass].

1330 P. alpina.

49 Carnarvon. Butler sp.
64 York m. west. Gibson sp.
69 Westmoreland?
70 Cumberland?
86 Stirling. Hooker sp.
87 Perth west. (F. B. White)
88 mid!
89 east. (F. B. White).
90 Forfar! Graham sp.
92 Aber. south! Dickie cat.
96 Easterness.
97 Westerness!
99 Dunbarton.
08 Suth. west. Campbell sp.
[15 error].

1330 P. laxa.
P. eu-laxa.

92 Aber south. Syme sp.
97 Westerness?

1330 P. laxa.
P. stricta.

92 Aber. south. Syme sp.
97 Westerness. "Babington!"
N.B. Much confusion has occurred between these two grasses, and in their nomenclature. The names used here are adopted from Dr. Boswell-Syme's edition of English Botany. In the sixth edition of the Manual, Professor Babington gives the former as *P. minor*, the latter as *P. laxa*.

1331 P. pratensis.

Counties all, except 35 42 46 71 74 97 105 107; doubtless to be found in every county.

1332 P. trivialis.

Counties all, except 42 46 71 74 97 105 107; doubtless to be found in every county.

1333 P. compressa.

2 Corn. east. Briggs sp.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north! Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. Bromfield ms.
11 Hants south. Notcutt cat.
12 north.
13 Sussex west. Borrer ?
14 east. Coleman cat.
15 Kent east.
16 west!
17 Surrey!
18 Essex south.
19 north. Varenne sp.
20 Herts. Barnard sp.
21 Middlesex!
22 Berks.
23 Oxford.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east. Geldart sp.
28 west.
29 Cambridge. Babington sp.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east. Prentice cat.
34 Gloster west. Thwaites sp.
35 Monmouth. Purchas sp.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
40 Salop. Leighton cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
50 Denbigh? J. E. Bowman cat.
52 Anglesea. Robinson cat.
53 Linc. south!
54 north. Fowler rec.
55 Leicester.
56 Notts.
58 Chester! J. L. Warren.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Johnston.
64 m. w. F. A. Lees rec.
65 n. west. Ward sp.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviotland.
69 Westmoreland.
70 Cumberland.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
80 Roxburgh.
81 Berwick. Embleton ms.
83 Edinburgh! Lloyd sp.
85 Fife?
86 Stirling. Croall cat.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar?
06 Ross east. Syme ms.†
[112 "common"; error?]

1334 P. nemoralis.

1 Corn. west?
2 east. Briggs sp.
3 Devon south. Briggs sp.
4 north!
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.

8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More, 1862.
11 Hants south. Towns. cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat
15 Kent east. Baker.
16 west!
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. Druce rec.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ch. Bab. ms.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
45 Pembroke.
47 Montgomery. Melvill cat.
48 Merioneth. (Reeves).
50 Denbigh. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby!
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
63 York s. w. F. A. Lees cat.
64 York m. west. Tatham cat.
65 n. west. Baker sp.
66 Durham.
67 Northumberl. Oliver sp.
68 Cheviotland.
69 Westmoreland.
70 Cumberland. Hort ms.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Brotherston rec.
83 Edinburgh. Balfour cat.
86 Stirling. Croall cat.
87 Perth west!
88 mid! Worsley cat.
89 east. (F. B. White).
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie cat.
95 Elgin. Gordon cat.
99 Dunbarton. Hooker sp.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.

1334 P. glauca.
P. Balfourii.

49 Carnarvon. Hort ms.
64 York m. west. Baker sp.
68 Cheviotland.
69 Westm. Backhouse ms.
88 Perth mid. Syme sp.
90 Forfar! H. M. Balfour sp.
92 Aber. south.
94 Banff. Roy ms. "300 yds."
98 Argyle?
99 Dunbarton. Balfour sp.

N.B. This has been named also "*cæsia*" and "*dissitiflora*;" but in a case where *all* the records have to be assigned among the plants or names, it is needful to make only a single aggregate species: nor, indeed, am I able to fix

on a clear line of severance between *glauca* and *Balfourii*. 15 East Kent has been recorded for "*glauca*;" that name unquestionably intending some other grass there. The glaucous tint and some other slight technical characters will distinguish the living *Balfourii* from *Parnellii*; but dried examples are difficult to separate, especially in an early stage of their inflorescence.

1335 Briza media.

Counties all the English, except 71. In Wales and Scotland recorded as under:—

41 Glamorgan. Barnard ms.
43 Radnor. Jones cat.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
47 Montgomery. Ley cat.
48 Merioneth. Miss Barnard.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Croall rec.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 Perth east!
90 Forfar!
91 Kinc. Mrs. Dickson ms.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easternes. Stables cat.
06 Ross east. Gordon cat.
09 Caith. Brown Campst. cat.
(111 Orkney; Syme ms.†)

1336 Briza minor.

2 Corn. west! Cunnack cat.
2 east. Briggs cat.†
3 Devon south. Borrer.
6 Som. north. Withers ms.*
9 Dorset. Townsend sp.
10 Wight. Stratton sp.
11 Hants south. Bromf. sp.
(17 21 51; casually).
[33 34 37 39 58].

1337 Cynosurus cristatus.

Counties all, except 42 74 105.

1339 Dactylis glomerata.

Counties all, except 74 105 107.

1340 Festuca uniglumis.

3 Devon south.
4 north. Russell sp.
5 Som. south. Coleman cat.
6 north. Withers ms.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south.
13 Sussex east.
15 Kent east. French sp.
18 Essex south.

19 Essex north. Gibson sp.
25 Suffolk east. Varenne sp.
28 Norfolk west.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
52 Anglesea. J. Macnab sp.
58 Chester !
59 Lanc. south. Tudor sp.
(East Lowlands, casual).
[61 South-east York].

1341 F. sciuroides.

F. bromoides.

Counties all, except 42 46 47 48 57 60 69 70 71 74 79 82 84 89 97 104 105 107 108 (110 111). Thus becoming rare in Scotland.

1341*F. Pseudo-myurus.

1 Corn. west. "Hore!"
2 east. Briggs sp.
3 Devon south. Briggs cat.
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More ms. 1869.
11 Hants south. Townsend.
13 Sussex west. Borrer cat.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Newbould sp.
23 Oxford. Beesley ms.
24 Bucks.
25 Suffolk east. Paget sp.
26 west. Jordan rec.
27 Norfolk east.
28 west. Wardale sp.
29 Cambridge.
30 Bedford. Newbould ms.
31 Hunts !
32 Northton. Notcutt cat.
34 Gloster west! Thwaites sp.
36 Hereford. Shaw sp.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
42 Brecon. Ley rec.
44 Carmarthen. Motley cat.
47 Montgomery. Melvill cat.
50 Denb. J. E. Bowman cat.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby. Howitt cat.
58 Chester J. L. Warren ms.
62 York n. east. Baker sp.†
65 n. west ?
(66 67 77 81 85). [90].

1341*F. ambigua.

(*F. ciliata*, var. *glabra*).

9 Dorset. Mansel-Pleydell sp.
10 Wight. A. G. More sp.
26 Suffolk west. Ar. Bennett.
28 Norfolk west. Ar. Bennett.

1342 F. ovina.

Counties all, except 31 60 71 74 105 107; presumably occurring in plenty in every county.

1343 F. duriuscula.

Counties all, except 24 31 42 44 45 46 51 53 54 60 71 73 74 80 84 93 97 98 103 104 105 107 108. These twenty-three seeming

exceptions to a comital generality do not exhaust the uncertainties about this grass. It has been so confused with *ovina* on one side, and with *rubra* or *arenaria* on the other side, that perhaps the better course now would be to treat *duriuscula* and *arenaria* as two grasses, any counties for which might properly be recorded *de novo;* provided, of course, this were done by botanists prepared to discriminate these two from each other and also both of them from *ovina*.

1344 F. rubra.
F. arenaria.

1 Corn. west.
2 east. Ley.
3 Devon south.
4 north ?
6 Som. north. Thwaites cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Townsend.
13 Sussex west.
14 east. Jeffrey.
15 Kent e. G. E. Smith cat.
18 Essex south.
19 north. Varenne ms.
25 Suffolk east. Purchas cat.
27 Norfolk east. Fitt sp.
29 Cambridge. Babington cat.
34 Gloster west. Thwaites sp.
35 Monmouth. Ley rec.
41 Glamorgan. Barnard ms.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
49 Carnarvon. Robinson cat.
51 Flint! Robinson cat.
52 Anglesea. Robinson cat.
54 Lincoln north!
58 Chester! J. H. Lewis sp.
59 Lanc. s. F. M. Webb cat.
60 west!
61 York s. east.
62 York n. east. Baker cat. co.
66 Durham.
67 Northumberland.
68 Cheviotland.
72 Dumfries. Gray cat.
73 Kirkcudbright.
75 Ayr. Boswell-Syme sp.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
81 Berwick.
83 Edinburgh ?
85 Fife. Balfour sp.
88 Perth mid. (F. B. White).
90 Forfar. Gardiner sp.
91 Kincardine. Syme cat.
92 Aber. south. Syme sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
06 Ross east. Syme sp.
07 or 08 Suth. North flo.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney ?
12 Shetland ? Probably.

N.B. This grass, brought into the gardens from the sandy coast of Lincolnshire, and kept under flower-pot culture, became so like the ordinary inland *F. duriuscula* as to be scarcely separable from the latter. Inland localities are rejected ; *ex. gr.* Andover ; Clarke Flora.

1345 F. sylvatica.

7 Wilts north. Flower cat.
14 Sussex east. Reeves.
34 Gloster west. Ley rec.
35 Monmouth. Ley rec.
36 Hereford. Purchas ms.
37 Worcester. Mr. Moseley.
39 Stafford. Garner Hist.
46 Cardigan. Purchas ms.
57 Derby. Whitehead sp.
63 York s. west. Leyland sp.
64 m. west. Baker sp.
65 n. west. Ley rec.
66 Durham. Backhouse.
69 Westmoreland! Gibson.
70 Cumberland. Baker sp.
83 Edinburgh. J. Macnab sp.
87 Perth west. Bot. soc. ed.
88 mid. Stables sp.
89 east. (F. B. White).
91 Kincardine. Dickie G.
92 Aber. south. Dickie G.
94 Banff. Northern Flora.
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
97 Western. "Fort Augustus."
99 Dunbarton. Hook. Scot.

[1 3 27 75 77; on authority hardly sufficient]. I have not seen a specimen from any county to the southward of Derby; but the personal authorities, as above cited for South Britain, seem to leave no warrant for disbelief in its occurrence there.

1346 F. elatior.
F. arundinacea.

Counties all, except 7 25 36 to 48 53 60 69 71 to 74 78 80 97 104 to 108.

N.B. Looking to the specimens in my own herbarium only, I much doubt whether any one botanist could separate those named as above, into two quasi-specific groups, to the satisfaction of all other botanists. By comparing their books, lists, and labels, it is made evident that the same botanists, at different dates, have applied both names to the same grass. Moreover pot-culture proves that the great coast grass, to which the name *arundinacea* has been more especially applied, can be reduced into rather a small state of ordinary *elatior*. See further, the remarks under the next species or couplet of names. To give the names of counties with personal authorities in detail, would less show the distribution of the four grasses themselves, than the use of the four names by individual botanists, too often only the doubting use of them.

1347 F. pratensis.
F. loliacea.

Counties all, except 32 45 to 48 51 60 71 74 78 84 86 93 95 to 98 102 104 105 107 108 110 112.

N.B. According to the accepted use of these two names in England, every grade of intermediate form may be found in various places; and one form of inflorescence can be converted into the other on the self-same root under experimental culture. Unfortunately, a binary

yoking of the four names (under 1346 and 1347) fails to remove all the difficulties in the nomenclature of the grasses themselves. The two names *pratensis* and *elatior* are often used interchangeably; and I have seen specimens so intermediate as to prevent me from putting either of these two names to them with any confidence of being correct in the choice.

1348 Bromus giganteus.

Counties all, except 5 42 46 47 60 61 71 72 74 78 97 104 to 112. It will be seen that my notes fail to shew any counties for this grass to the north-westward of Moray and Argyle.

1349 B. asper.

Counties all, except 42 43 48 60 71 74 78 89 96 to 99 102 104 to 112. The northward limit is thus slightly more restricted than that of the preceding grass.

1350 B. sterilis.

Counties all the English, except 69 and 71. In Wales and Scotland it has been recorded as under:—

42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxb. Brotherston rec.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Lloyd sp.
84 Linlithgow. Balfour cat.
85 Fife. Boswell-Syme sp.
86 Stirling. Duthie sp.
87 Perth west. (F. B. White).
88 mid. Roy ms.
89 east!
90 Forfar.
91 Kincardine.
92 Aber. south. Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.†
98 Argyle.
99 Dunbarton?
00 Clyde-isles. Hennedy cat.
03 Ebudes mid. Ross cat.
09 Caith. Brown Campst. cat.

N.B. This grass, so abundant in the southern counties, must surely take rank among the less common in Scotland. Marked as "very common" in the Edinburgh Catalogue.

1351 B. madritensis.

3 Devon south.
6 Som. north. Russell sp.
11 Hants south.
14 Sussex east. Roper cat.
15 Kent e. G. E. Smith cat.
17 Surrey.
23 Oxford?
34 Gloster west! Thwaites ms.
41 Glamorgan.
44 Carmarthen. Motley cat.

45 Pembroke.
(66 85). [37 83].

1353 B. erectus.

3 Devon south. Briggs sp.*
6 Som. north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset ?
10 Wight ! More cat.
11 Hants south. Townsend.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 east. Gibson ms.
15 Kent e. G. E. Smith cat.
16 west !
17 Surrey ! J. L. Warren ms.
19 Essex north.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks. J. L. Warren ms.
26 Suffolk west. Skepper cat.
28 Norfolk west.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton ?
33 Gloster east. Prentice cat.
34 west. E. Lees sp.
36 Hereford. Purchas cat.
37 Worcester. Matthews.
38 Warwick. Bagnall.
40 Salop. Leighton cat.
52 Anglesea. Robinson cat.
53 Linc. south ! Bloxam ms.
54 north ! Ch. Bab. sp.
55 Leicester.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west.
66 Durham. Norman cat.
73 Kirkcudbright ?
83 Edinburgh. Brand sp.
85 Fife. Dewar sp.
(18). [2 25 45; more safe authority needed].

1354 B. secalinus.

Counties all, but with many exceptions, especially northward. Authorities can be cited for about 80 counties and ranging from Cornwall to Ross, but in few of these, if in any of them, has this grass of tillage fields got a constant hold of the ground. The *B. velutinus*, of Smith, is simply a variation of the same grass with pubescent flowers. The like variation occurs in *commutatus*, *mollis*, and other species.

1355 B. commutatus.
B. pratensis, Sm.

1 Corn. west.
2 east. "*racemosus.*"
3 Devon south. Hore sp.
4 north. "*racemosus.*"
5 Som. south. Coleman cat.
6 north. Thwaites cat.
8 Wilts south. "*racemosus.*"
9 Dorset. Pleydell cat.
10 Wight. More sp.†
11 Hants south. Notcutt cat.
12 north. Townsend.
13 Sussex west ! Borrer cat.
14 east. Dyer sp.
15 Kent e. G. E. Smith cat.
16 west. Bossey sp.
17 Surrey ! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Barnard sp.

21 Middlesex! Hind cat.
22 Berks.
23 Oxford. Ayres sp.
24 Bucks. Pryor.*
25 Suff. east. "*racemosus.*"
26 west. "*racemosus.*"
27 Norf. east. "*racemosus.*"
28 west. "*racemosus.*"
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts. Newbould cat.
32 Northton. "*racemosus.*"
33 Gloster east. Prentice cat.
34 west! Thwaites sp.
35 Monmouth. Ley sp.
36 Hereford.
37 Worcester. G. Maw sp.
38 Warwick. Bloxam sp.
39 Stafford. Douglas cat.
40 Salop. Babington sp.
41 Glamorgan. Barnard ms.
43 Radnor. Jones cat.
45 Pembroke. Babington cat.
47 Montgomery. Melvill cat.
50 Denbigh. "*racemosus.*"
52 Anglesea. "*racemosus.*"
53 Lincoln south!
54 north!
55 Leicester.
56 Notts. T. H. Cooper sp.
58 Chester! J. L. Warren sp.
59 Lanc. south. Lewis sp.
61 York s. east.
62 n. east. Baker sp.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviotland. Tate cat.
72 Dumfries. "*racemosus.*"
73 Kirkcud. "*racemosus.*"
76 Renfrew. Hennedy cat.†
77 Lanark. Hennedy cat.†
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
81 Berwick. "*racemosus.*"
82 Haddington.
83 Edinburgh! Campbell sp.
85 Fife. Syme ms. 1870.
86 Stirling!
87 Perth west. Syme cat.
89 east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
96 Easterness!
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
12 Shetland. Tate cat.†
[11 Orkney. Gillies ms.]

N.B. Not unlikely to occur in Orkney; but the specimen labelled "*pratensis*" in the herbarium of Dr. Gillies is a subglabrous *mollis*. The name "*racemosus*," as used in books and on labels often intended this present species; but it was perhaps almost equally often applied to a state of *mollis* with glabrous inflorescence. The *eu-racemosus* (of Syme, in Eng. Bot. ed. 3) is a third application of the name to a closely allied grass, which apparently is a casual importation along with foreign seeds of rye-grass, &c. In the work referred to, Dr. Syme enumerates counties 10 17 18 or 19 20 21 29 30 and 58 for his *eu-racemosus*. Mr. Briggs sent a specimen of it from South Devon, and Dr. Syme one so labelled from Fife. My

own knowledge of it otherwise is limited to its rare occurrence in Surrey, in fields sown with Italian rye-grass and clover, and a specimen or two occasionally by railway stations.

1356 B. mollis.

Counties all, except 41 71 74 105; no doubt it occurs in every county.

1357 Brachypodium. sylvaticum.

Counties all, except 42 48 71 74 78 89 97 99 105 108 110 112. There are specimens of this grass in the Orkney herbarium of Dr. Gillies; and it is marked in the Caithness catalogue by Dr. Brown; apparently rather a rare grass in North Britain.

1358 B. pinnatum.

3 Devon south? several rec.
6 Som. north! Withers ms.
7 Wilts north. Withers ms.
9 Dorset. Pleydell cat.
11 Hants south. Trevelyan sp.
12 north. Townsend.
13 Sussex west. Borrer cat.
14 e.! J. L. Warren cat.
15 Kent east. Trevelyan sp.
16 west. Reynolds sp.
17 Surrey! J. L. Warren ms.
19 Essex north.
20 Herts. Fordham sp.
22 Berks.
23 Oxford.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts! Newbould cat.
32 Northton! Ch. Bab. ms.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth. Hort sp.
36 Hereford. Purchas sp.
37 Worcester. Matthews.
38 Warwick?
39 Stafford?
53 Linc. south!
54 north!
55 Leicester.
56 Notts. Mrs. Russell sp.
57 Derby. Howitt cat.
61 York s. east.
62 n. east.
63 s. west.
64 m. w. Hailstone sp.

N.B. The rejected counties are detailed underneath, with their authorities so far as the restricted space will allow. Possibly it may be deemed worth while hereafter to print a full list of the rejected and queried counties, under all the species?

[21 Middlesex. "Irvine."
25 Suff. e. "Woodward."
27 Norf. e. "Woodward."
66 Durham. King in Phyt.
70 Cumb. "Hutchinson."
85 Fife. Woodf. Ed. cat.
94 Banff. Bot. Soc. Ed.]

1359 Triticum caninum.

1 Corn. west. Cunnack cat.
3 Devon south.
5 Som. south.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 s. J. L. Warren ms.
9 Dorset. Pleydell cat.

11 Hants south. Towns. cat.
12 north. Towns. cat.
13 or 14 Sussex. Borrer cat. co.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper
27 Norfolk east. Stock cat.
28 west.
29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton!
33 Gloster east.
34 w.! Thwaites cat.
35 Monmouth. Hort ms.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford! Bagnall ms.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley ms.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south. Robinson ms.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. w. Hailstone sp.
65 York n. w. F. A. Lees cat.
66 Durham.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland!
70 Cumberland. Oliver sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hooker sp.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife. Syme cat.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east. (F. B. White).
90 Forfar. "common."
91 Kincardine. Syme cat.
92 Aber. south. Dickie cat.
93 north. Dickie flo.
94 Banff. "frequent."
95 Elgin. Gordon cat.
96 Easterness! Stables sp.
00 Clyde-isles. Hennedy cat.
03 Ebudes mid. Ross cat.
06 Ross east. Gordon cat.
Sutherland. Johnston ms.
[10 Bromf. 111 Clouston].

1360 T. repens.

Counties all, except 42 71 74 97 105 107 108. Doubtless it occurs in every county.

1361 T. "littorale."

1 Corn. west. Scilly flo.
3 Devon south. "*littoreum.*"
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt sp.
13 Sussex west!

15 Kent east!
16 west!
18 Essex south. Varenne ms.
19 north. Varenne ms.
20 Herts? Webb Supp. no. 2.
34 Gloster west!
46 Cardigan. Atwood sp.
51 Flint!
52 Anglesea.
54 Lincoln north!
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker sp.
66 Durham. Norman cat.
67 Northumb. Baker sp.
70 Cumberland. Oliver sp.
83 Edinburgh!
85 Fife. Boswell-Syme sp.
99 Dunbarton. Ch. Bab. ms.
00 Clyde-isles. Hennedy cat.
01 Cantire. "*maritimum.*"
04 Eb. north. Lawson cat.
11 Orkney. Gillies herb.
12 Shetland "*maritimum.*"

N.B. Apparently this is the same thing with *pungens*, though possibly some of the counties reported may belong only to a glaucous variety of *repens;* thus, not properly quotable under *pungens*.

1361*T. "pungens."

1 Cornwall. "Oliver."
3 Devon south. Rogers.
10 Wight. More cat. E. B. 3.
11 Hants south. Towns. cat.
13 Sussex w. J.L. Warren cat.
14 e. J.L. Warren ms.
15 Kent east. Syme ms.
18 Essex south. Varenne ms.
19 north. Varenne ms.
27 Norfolk east. Babington.
29 Cambridge. Babington cat.
34 Gloster west. Druce rec.
53 Linc. south. Fowler rec.
58 Ches. J.L. Warren ms. 1873.
62 York n. east. Baker ms.
03 Ebudes mid.

N.B. See the remark under the preceding species or segregate; apparently a synonym with this present, as to name; not certainly so, as to county habitats.

1361*T. "acutum."

1 Corn. west. Cunnack cat.
3 Devon south. Briggs sp.
5 Som. south. Coleman cat.
10 Wight. More cat.
11 Hants s. J. L. Warren ms.
13 Sussex w. J.L. Warren ms.
15 Kent east. Syme "sp."
19 Essex north. Varenne ms.
25 Suffolk east. Purchas ms.
27 Norfolk east. Babington.
28 west.
45 Pembroke.
53 Linc. south. Fowler rec.
58 Chester. R. Brown.
59 Lanc. s. F. M. Webb cat.
70 Cumberland.
83 Edinburgh.
85 Fife. Syme "sp."
00 Clyde-isles. Hennedy cat.
11 Orkney. Syme.

1361*T. "laxum."

3 Devon south.
6 Som. north. Atwood "sp."
10 Wight. Syme "sp."
11 Hants south.
13 Sussex west. Mitten "sp."
15 Kent east.
16 west. Syme "sp."
19 Essex n. Varenne "sp."
25 Suffolk west. Purchas ms.
28 Norfolk west.

45 Pembroke. Babington cat.
62 York n. east. Baker "sp."
66 Durham.
67 Northumberland.
68 Cheviotland.
70 Cumberland. "Chambers."
83 Edinburgh.
00 Clyde-isles.

N.B. The *laxum* and *acutum* are supposed to be synonyms for the self-same segregate; but in actual use, I suspect the former name has been occasionally applied to *pungens* or *littorale*. Hence the keeping apart for the present.

1362 T. junceum!

3 Devon south. Rogers.
4 north. Rogers.
10 Wight. More Supp. F. V.
11 Hants south. (Towns. flo.)
13 Sussex w. J. L. Warren cat.
14 east. Jenner rec.
15 Kent east. Ar. Bennett.
18 Essex south. Crespigny.
19 north. Varenne ms.
27 Norf. east. Babington.
44 Carmarthen. Jones rec.
46 Cardigan. Jones cat.
49 Carnarvon. Druce rec.
53 Linc. south. Fowler rec.
54 north!
58 Chester. J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
61 York s. east. Webster rec.
85 Fife. Syme cat.
03 Ebudes mid. Ross rec.
09 Caithness. Nicolson cat.
11 Orkney. Syme sp.

N.B. The counties for this seaside grass are doubtless much more numerous than are given here. So far as the use of the name *junceum* goes, my notes shew that it has been reported from all the maritime counties, except 48 69 71 72 73 74 84 87 89 97 105 107. As thus reported, however, it is not simply the segregate or truly distinct species here intended, but a commute jumble of it with the three or four preceding, which are rightly judged by Dr. Syme to be more closely allied to *T. repens* than to *junceum* strictly so named.

1363 Lolium perenne.

Counties all, except 74 105.

1364 L. temulentum.
L. arvense.

Counties sixty-four, rather less than half of the whole number, find authorities for this colonist or casual grass among my collected notes. The awnless state, *arvense*, is perhaps the more frequent plant, though the name of *temulentum* occurs more frequently in books. It seems needless to enumerate counties and authorities in detail for a plant so uncertain of being re-found in the same places (fields or even farms) from year to year.

1365 Elymus arenarius.

18 Essex south.
19 north.
25 Suff. east. Bloomfield cat.

27 Norf. east. Woodward sp.
28 west.
49 Carnarvon. Gibson ms.
54 Linc. north! Thompson ms.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker sp.
66 Durham. Storey sp.
67 Northumberland.
68 Cheviot. Embleton cat.
70 Cumberland ?
75 Ayr.
82 Haddington ?
85 Fife ?
90 Forfar. Syme sp.
91 Kincardine.
92 Aber. south. Dickie sp.
93 north Brand sp.
95 Elgin. Gordon cat.
97 Westerness ! Gordon ms.
00 Clyde isles. Syme 1872.
07 Suth. east.
08 west ! Graham sp.
09 Caith. ! Brown Campst. cat.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
[3 6 9 46; counties not very unlikely, yet seeming to require confirmation. Cardigan may be held a likely county, but I can cite for it no better authority than the unreliable one of Aikin in Botanist's Guide].

1366 Hordeum sylvaticum.

7 Wilts north ?
12 Hants north.
16 Kent west. Borrer ms.
17 Surrey. Groves.
19 Essex north. Varenne ms.
20 Herts.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
30 Bedford.
31 Hunts. Newbould cat.
33 Gloster east. Woodward sp.
34 west. Stephens sp.
36 Hereford.
37 Worcester. E. Lees sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester ?
62 York n. east. Baker sp.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west.
66 Durham. Storey cat.
67 Northumb. Makepeace sp.
[29 50].

1367 H. pratense.

1 Corn. west. Ralfs.
2 east.
3 Devon south. Briggs cat.
4 north ! Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight ! More cat.
11 Hants south ! Notcutt cat.
12 north. Towns. cat.
13 Sussex west ! Borrer cat.
14 east. Coleman cat.
15 Kent e. ! G. E. Smith cat.
16 west !
17 Surrey ! Christy sp.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex ! Hind cat.
22 Berks.
23 Oxford. Beesley cat.
24 Bucks.
25 Suffolk east. Stock cat.
26 west. Skepper cat.
27 Norfolk east.
28 west.

29 Cambridge. Babington cat.
30 Bedford. Newbould ms.
31 Hunts! Newbould cat.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west! Thwaites cat.
35 Monmouth. Watkins sp.
36 Hereford. Shawe sp.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Motley cat.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman ms.
51 Flint! J. E. Bowman sp.
52 Anglesea? Robinson cat.
53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts. Howitt sp.
57 Derby! Howitt cat.
58 Chester! Gordon ms.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker cat.
63 s. west.
64 m. west. Moore flo.
65 n. west.
66 Durham. Norman cat.
67 Northumberland.
68 Cheviot. Embleton cat.

[75 81 83 85 87; counties which seem to require confirmation; that of Berwick is simply a question of political boundary, between England and Scotland; through Dr. Syme I have a specimen supposed to have been picked on the north side of the Tweed].

1368 H. murinum.

Counties all in South Britain, except 42 43 47 48. The records for Mid and North Britain run as follows:—

53 Lincoln south!
54 north! Bogg cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester! J. L. Warren ms.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker cat. co.
63 s. w. F. A. Lees cat.
64 m. w. F. A. Lees cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviotland. Embleton cat.
70 Cumberland?
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh! Balfour cat.
84 Linlithgow.
85 Fife. Syme cat.
89 Perth east. (F. B. White).
90 Forfar. Croall sp.
91 Kincardine. "doubtless introduced."
Aberdeen.
95 Elgin. Gordon sp. & cat.†
09 Caith. Brown Campst. cat.*

[116 Orkney; Lowe].

1369 H. maritimum.

1 or 2 Cornwall?
3 Devon south.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt sp.
13 Sussex w.! J. L. Warren cat.
14 east. Trevelyan sp.
15 Kent e.! G. E. Smith cat.
16 west!

18 Essex south. Varenne ms.
19 north. Christy sp.
25 Suffolk east Bloomf. cat.
27 Norfolk east.
28 west. Bell sp.
29 Cambridge ?
34 Gloster w. ! Thwaites cat.
41 Glamorgan ?
48 Merioneth. (Reeves).
53 Linc. south. Fowler rec.
54 north ! Howitt sp.
61 York s. east.
62 n. east. Baker sp.
66 Durham.
[58 68 70 87 90; counties requiring confirmation].

1370 Nardus stricta.

Counties all, except 6 31 32 33 53 71 74 105; possibly 31 and 32 may be real exceptions to a comital generality.

1371 Lepturus filiformis.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Hore sp.
4 north. Russell sp.
5 Som. south. Coleman cat.
6 north. Thwaites sp.
9 Dorset. Gibson sp.
10 Wight. More cat.
11 Hants south. Notcutt cat.
13 Sussex w. J. L. Warren.
14 east. Roper cat.
15 Kent e. G. E. Smith cat.
16 west !
18 Essex south.
19 north. Varenne sp.
25 Suffolk east. Bloomf. cat.
27 Norfolk east. Fitt sp.
28 west.
29 Cambridge. "Marshall."
34 Gloster w. Thwaites cat.
35 Monmouth. Hort sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
46 Cardigan. Jones rec.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman ms.
51 Flint. J. E. Bowman sp.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north ! Howitt sp.
58 Chester. J. L. Warren ms.
59 Lanc. south. Tudor sp.
60 west. Syme sp.
61 York s. east.
62 n. east. Baker sp.
63 s. west. West rec.*
66 Durham.
67 Northumb. Storey sp.
68 Cheviotland.
70 Cumberland.
72 Dumfries. J. Dickson sp.
73 Kirkcudbright. Gray cat.
82 Haddington. Syme sp.
83 Edinburgh ?
84 Linlithgow ! Gentle sp.
85 Fife. Drummond.
93 Ebudes south. (Grieve).
N.B. This enumeration will be understood to include the counties reported for so-called *incurvatus*, if reported as a truly wild grass, not on ballast, etc.

1372 Ceterach officinarum.

1 Corn. west.
2 east. Briggs cat.
3 Devon south ! Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north ! Trevelyan sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.

11 Hants south. Tate ms.
12 north.
13 Sussex west. Weaver sp.
14 east.
15 Kent e. G. E. Smith cat.
17 Surrey!
18 Essex south.
19 north.
20 Herts?
21 Middlesex. Extinct?
23 Oxford.
24 Bucks.
26 Suffolk west.
27 Norfolk east.
32 Northton. Berkeley ms.
33 Gloster east. Roberts ms.
34 west! Thwaites sp.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Stables sp.
45 Pembroke. Babington sp.
46 Cardigan. Atwood sp.
47 Montgomery. Pamplin ms.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J.E.Bowman ms.
52 Anglesea. Robinson cat.
56 Notts.
57 Derby! Scholes sp.
58 Chester.
59 Lanc. south?
60 west.
63 York s. west.
64 m. w. Tatham sp.
65 n. west.
68 Cheviotland. Extinct.
69 Westmorel. Simpson sp.
70 Cumberland.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark?
81 Berwick?
88 Perth mid. "Ogilvie."
89 east. Gardiner sp.
98 Argyle. "Gourlie."

1373 Woodsia ilvensis.

48 Merioneth. Backhouse rec.
49 Carnarvon. Robinson cat.
66 Durham. J.E.Bowman sp.
69 Westmorel. Bloxam ms.
70 Cumberland?
72 Dumfries. Gray ms.
88 Perth mid.
90 Forfar! J. Roy ms.
[65 "Mr. Potter." F.F.]

1373 W. hyperborea.

49 Carnarvon. Butler sp.
88 Perth mid. Maughan sp.
90 Forfar. J. Roy sp.
[72 Dumfries]. This fern is with difficulty distinguished from the preceding; and some of the stations are assigned now to one, now to the other of them. For instance, the name on Mr. Roy's label was altered to *ilvensis* by Dr. Syme; while to my own eye the specimen (from Glen Isla) looks quite as near *hyperborea*, under which it is placed here. So, again, I found *ilvensis* on the Clova mountains in 1831 or 2; and then showed the station to Mr. Brand, and sent specimens thence to Sir William Hooker; nevertheless, Sir William published the station for *hyperborea* on the seeming authority of

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Mr. Brand. And so, of other stations; the very confusion tending to support the view of specific identity.

1374 Polypodium vulgare.

Counties all, except 42 74 105.

1375 P. Phegopteris.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Parsons rec.
9 Dorset. Mansell-Pleydell sp.
14 Sussex east.
33 Gloster east.
34 west. Purchas cat.
35 Monmouth. Pryer.†
36 Hereford. Shawe sp.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan. Lees sp.
42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen.
46 Cardigan. Purchas ms.
47 Montgomery.
48 Merioneth. Russell sp.
49 Caarnarvon. Robinson cat.
50 Denbigh. Miss F. Walker.
57 Derby.
58 Chester. J. L. Warren cat.
59 Lanc. south.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west.
66 Durham. R. B. Bowman sp.
67 Northumberland.
68 Cheviotland. Tate cat.
69 Westm.! Miss Beevor sp.
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle. Gibson ms.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson cat.
06 Ross east!
07 Suth. east. Johnston ms.
08 west! Johnston ms.
09 Caith. Brown Campst. cat.
11 Orkney.
12 Shetland. one loc. in E.F. [17 21 Beevis in F. F.].

1376 P. Dryopteris.

2 Corn. east. M. Bull sp.
3 Devon south. Briggs sp.
4 north. M. Bull sp.
34 Gloster west. Hort ms.
35 Monmouth.

36 Hereford. Purchas cat.
37 Worcester. E. Lees sp.
38 Warwick. "Planted?"
39 Stafford. Fraser cat.
40 Salop. Bidwell sp.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor.
45 Pembroke.
46 Cardigan. Purchas ms.
47 Montg. J. E. Bowman ms.
48 Merioneth.
49 Carnarvon.
50 Denbigh. J. E Bowman ms.
51 Flint. Robinson cat.
52 Anglesea.
57 Derby.
58 Chester. Robinson cat.
59 Lanc. south.
60 west.
62 York n. east. Baker cat.
63 s. west.
64 m. w. Ch. Bab. sp.
65 n. west. Ward cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland! Pinder ms.
70 Cumberland! Baker ms.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat. 1868.
86 Stirling. Duthie cat.
87 Perth west! Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Grieve.
98 Argyle.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!
09 Caith. Brown Campst. cat.
12 Shetland. Norman ms.

[6 Som. Mr. Flower. B. G.
7 Wilts. Dr. Alexander.
9 Dorset. "Mr. Fox."
13 Sussex. Error; W.B.
18 Essex. Warner Woodf.
23 Oxford. Sibthorp flo.
54 Lincoln. Irvine flo.
56 Notts. Bot. Guide.]

N.B. The confusion between this and the next species throws doubt on all the southern counties recorded for the present, except those recently reported on safe authority. *Cystopteris fragilis* has also been mistaken for this fern in Notts, etc.

1377 P. calcareum.

P. Robertianum.

6 Som. north. Trevelyan sp.
7 Wilts north. Flower cat.
23 Oxford.
24 Bucks. Spec. seen; Britten.
33 Gloster east. Woodward sp.
34 west. Purchas ms.
36 Hereford. Purchas ms.
37 Worcester. Dr. Fraser sp.
39 Stafford.
40 Salop. Salwey sp.

41 Glamorgan.
42 Brecon.
49 Carnarvon. Robinson cat.
50 Denbigh.
57 Derby! J. E. Bowman sp.
59 Lanc. south. Leyland sp.
63 York s. west. Leyland sp.
64 m. west. Tatham sp.
66 Durham. Storey sp.
69 Westmoreland!
88 Perth mid. (F. B. White). (10 Wight. "planted"). [60 88 93; insufficiently vouched, but possibly correct].

1378 Allosorus crispus.

4 Devon north?
5 Som. south. Dr. Bull sp.
37 Worcester?
40 Salop. Newman ms.
41 Glamorgan. Newman lre.
43 Radnor. Jones cat.
46 Cardigan. Gibson ms.
47 Montg. J. E. Bowman ms.
48 Merioneth.
49 Carnarvon! Robinson cat.
50 Denbigh.
57 Derby?
58 Chester. J. L. Warren ms.
59 Lanc. south. Leyland sp.
60 west.
62 York n. east.
63 s. west. "extinct."
64 m. west. Tatham sp.
65 n. west.
66 Durham. Norman cat.
67 Northumberland. Storey sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Montgomery ms.
76 Renfrew. Hennedy cat.
77 Lanark. "Mr. Dunlop."
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
85 Fife.
86 Stirling.
87 Perth west. McHardy.
88 mid. Worsley cat.
89 east. Brand sp.
90 Forfar! Stables sp.
91 Kincardine. Roy ms.
92 Aber. south! Dickie ms.
96 Easterness!
97 Westerness!
98 Argyle.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross cat.
04 north. Lawson cat.
06 Ross east. "Mr. Wilson."
08 Suth. west.
09 Caith. Brown Campst. cat.†
10 Hebrides. Harris isle.
[36 55 83. Errors?]

1379 Cystopteris fragilis.
C. dentata.

1 Corn. west.
3 Devon south. Briggs sp.
4 north?
5 Som. south. Bull sp.
6 north. Babington sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset?
13 Sussex west. Weaver sp.
17 Surrey.
21 Middlesex.
33 Gloster east. Roberts ms.
34 west.
35 Monmouth. Ley rec.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.

40 Salop.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. Ley cat.
44 Carmarthen. Oakeshott rec.
46 Cardigan. Purchas ms.
47 Montgomery. Leighton sp.
48 Merion. J. E. Bowman sp.
49 Carnarvon. Robinson cat.
50 Denbigh. Bidwell sp.
51 Flint. Bidwell sp.
52 Anglesea. Robinson cat.
55 Leicester. Coleman cat.
56 Notts.
57 Derby! Riley sp.
58 Chester. J. L. Warren ms.
60 Lanc. west. Linton cat.
62 York n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumb. Thornhill sp.
68 Cheviotland.
69 Westmoreland!
70 Cumberland!
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife.
86 Stirling. Duthie cat.
87 Perth west! Syme sp.
88 mid! Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Croall sp.
92 Aber. south! Dickie sp.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon sp.
96 Easterness! Stables sp.
98 Argyle.
00 Clyde-isles. Hennedy cat.
02 Ebudes south. Grieve cat.
03 mid. Ross cat.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west. Johnston ms.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. "Anderson" sp.
[Kent? Essex? Suffolk? Norfolk?]

1380 Cystopteris alpina.

66 Durham. Backhouse ms.
N.B. Mr. Backhouse informed me that he had found true *alpina* in Teesdale, 1872. The so-called *alpina* in Essex is or was on a (garden?) wall; doubtless introduced.

1381 C. montana.

88 Perth mid. Gourlie sp.
90 Forfar. Backhouse sp.
92 Aber. south. "Mr. Croall." [49 94; insufficiently vouched, and Mr. Roy writes that 94 was an error].

1382 Polystichum Lonchitis.

41 Glamorgan?
49 Carnarvon. Robinson cat.
64 York m. west. Tatham sp.
66 Durham. R. B. Bowman sp.
68 Cheviot. Embleton ms.
69 Westm. Martindale, 1871.
86 Stirling. Croall cat.
87 Perth w. F. M. Webb rec.
88 mid!

89 Perth east!
90 Forfar!
92 Aber. south! Dickie cat.
94 Banff. Roy ms.
95 Elgin.
96 Easterness!
97 Westerness!
98 Argyle. Landsborough.
99 Dunbarton.
04 Eb. north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west. Johnston ms.
09 Caithness. "C. W. Peach."
[29 32 70 77 111].

1383 P. lobatum.

P. aculeatum.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs sp.
4 north. Maw cat.
5 Som. south.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south! Notcutt cat.
12 north.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey!
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Bloomfield cat.
26 west.
27 Norfolk east.
28 west. Notcutt cat.
29 Cambridge. Extinct?
30 Bedford. Which species?
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites sp.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Bidwell sp.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north! Bogg cat.
55 Leicester. Bloxam sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham sp.
65 n. west. Ward sp.
66 Durham. R. B. Bowman sp.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh! Brand sp.

85 Fife! Syme cat.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid. Worsley cat.
89 east!
90 Forfar!
91 Kincardine. Dickson cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
95 Elgin.
96 Easterness. Stables sp.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Lawson ms.
06 Ross east. Gordon cat.
09 Caithness. Grant.
11 Orkney. Johnston.

N.B. Some confusion occurs between this present species and *angulare;* the name *aculeatum* having sometimes been used to designate the latter; while in most instances it intends an intermediate form (as to cutting or division of the pinnæ) between *lobatum* and *angulare*, but passing into ordinary *lobatum* by inseparable gradations of duration, outline, cutting, texture, and colour.

1384 Polystichum angulare.

1 Corn. west. Cunnack cat.
2 east. Briggs cat.
3 Devon south! Greville sp.
4 north!
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north. Townsend.
13 Sussex west. Weaver sp.
14 east. Trevelyan sp.
15 Kent east. Stevens sp.
17 Surrey!
18 Essex south.
19 north. Varenne ms.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks!
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 west.
27 Norfolk east.
31 Hunts. Newbould cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
36 Hereford. Purchas cat.
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
46 Cardigan. Purchas ms.
49 Carnarvon. Robinson cat.
50 Denbigh. Miss Walker sp.
51 Flint. Robinson cat.
55 Leicester.
57 Derby.
58 Chester. J. L. Warren cat.
59 Lanc. s. F. M. Webb cat.
62 York n. east. Baker sp.
63 s. west.
64 m. w. F. A. Lees cat.
65 n. west. Ward sp.
66 Durham.
67 Northumberland.
69 Westmoreland. Ball sp.
70 Cumberland. Chambers sp.
71 Man. Forbes cat.
75 Ayr.

80 Roxburgh.
81 Berwick.
00 Clyde-isles. Hennedy cat.

1385 Lastrea Thelypteris.

3 Devon south ?
6 Som. north. Withers sp.
9 Dorset. Pleydell cat.
10 Wight! More sp.
11 Hants south.
13 Sussex west. Borrer cat.
14 east. Coleman cat.
15 Kent east!
16 west.
17 Surrey!
18 Essex south. Varenne ms.
19 north.
22 Berks ?
25 Suffolk east. Paget sp.
26 west. Salmon sp.
27 Norfolk east. Cooper sp.
28 w. Woodward sp.
29 Cambridge. Babington cat.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
36 Hereford.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
45 Pembroke. Atwood sp.
49 Carnarvon. Robinson cat.
51 Flint. J. E. Bowman ms.
52 Anglesea.
54 Linc. n. Lees & Fowler rec.
55 Leicester?
56 Notts. Howitt sp.
58 Chester. J. L. Warren ms.
61 York s. east.
62 n. east.
63 s. w. F. A. Lees cat.
64 m. west. Baker sp.
68 Cheviot. Richardson sp.
69 Westm. Miss Hodgson ms.
70 Cumberland.
90 Forfar. Maughan sp.
[112 Edm. flo.]

1386 L. Oreopteris.

Counties all, except 24 26 28 29 (extinct ?) 30 31 33 42 43 47 48 73 74 82 84 93 94 97 105.

1387 L. Filix-mas.

Counties all, except 74 97 105. Shetland recorded, but very doubtful.

1388 L. rigida.

6 Som. north ? ? J. E. Vize.
59 Lanc. south.
60 west.
64 York m. west. Tatham sp.
65 n. w. Thompson sp.
69 Westmorel. Simpson sp.
N.B. At an elevation of about 200 yards on Whitbarrow and Farleton Knot; *fide* Mr. J. A. Martindale ms.

1389 L. cristata.

25 Suffolk east.
27 Norf. east.
28 west. Wardale sp.
31 Hunts. Berkeley ms.
56 Notts. Howitt sp.
58 Chester. Robinson sp.
63 York s. w. F. A. Lees cat.
64 m. west ?
74 Renfrew. Galt sp.
[8 23 30 37 84 92.]

1389 L. uliginosa.

18 Essex ? ?
27 Norf. west.

28 Norf. east. Wardale sp.
56 Notts.
57 Derby.
58 Chester.
[38 40 91 ; errors].

1390 L. spinulosa.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs sp.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north ?
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Dyer ms.
12 north ! Townsend.
13 Sussex west ! Weaver sp.
14 east. Coleman cat.
15 Kent east !
16 west.
17 Surrey !
18 Essex south.
19 north. Varenne sp.
20 Herts. Coleman cat.
21 Middlesex. Wing sp.
22 Berks.
23 Oxford ?
24 Bucks. Britten cat.
25 Suff. east. Bloomf. ms.
26 west. Bloomfield.
27 Norfolk east.
28 west.
29 Cambridge.
30 Bedford. Hillhouse cat.
31 Hunts. Newbould cat.
32 Northton.
33 Gloster east. Prentice cat.
34 west. F. Hort ms.
35 Monmouth. Ley rec.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Bloxam sp.
39 Stafford ! Fraser cat.
40 Salop. Maw sp.
41 Glamorgan.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Fowler rec.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby. Howitt cat.
58 Chester. Brent sp.
59 Lanc. south.
61 York s. east.
62 n. east. Baker cat.
63 s. w. F. A. Lees cat.
64 m. west. Baker sp.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Oliver sp.
68 Cheviot. Richardson sp.
69 Westmoreland !
70 Cumb. Babington sp.
71 Man ? Forbes cat.
76 Renfrew.
80 Roxb. Brotherston rec.
83 Edinburgh ? E. B. S. cat.
85 Fife. Syme cat.
86 Stirling.
87 Perth west. (F. B. White).
88 mid. A. O. Black sp.
89 east. (F. B. White).
90 Forfar ?
91 Kincardine ?
92 Aber. south. Dickie cat.
95 Elgin ?
97 West. Mrs. Maskelyne sp.
98 Argyle ?
99 Dunbarton.
02 Ebudes south. Grieve cat.
03 mid. Ross cat.
06 Ross east ?
10 Hebrides ?

N.B. This has been much and strangely confused with the very different *dilatata*. Several counties are queried

in consequence, but rather because the testifiers are supposed to have been unprepared to apply the names rightly, than because the counties are to be considered unlikely in themselves.

1391 L. dilatata.

Counties all, except 28 31 42 to 74 105 to 108. In some few instances, where the *spinulosum* is marked in lists, and *dilatatum* left unmarked, it has been assumed that the present more general species has been the one intended.

1392 L. æmula.
L. Fœnisecii.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north.
5 Som. south. Coleman cat.
9 Dorset.
14 Sussex east. Broome sp.
16 Kent west. Trevelyan sp.
30 Hereford ?
40 Salop ?
41 Glamorgan. "Vize!"
45 Pembroke.
48 Merioneth. (Reeves).
49 Carnarvon.
52 Anglesea.
62 York n. east. Bean sp.
68 Cheviot. Embleton sp.
69 Westmoreland.
70 Cumberland.
80 Roxburgh ?
81 Berwick ?
97 Westerness. Sadler.
99 Dunbarton.
00 Clyde-isles. Gourlie sp.
02 Eb. south. Grieve cat.
03 mid.
03 north. Lawson cat.
10 Hebrides ?
11 Orkney.

N.B. This continues to be confused with *dilatata*, even by botanists who have opportunities to see the ferns living. There are specimens in my herbarium, brought from Cornwall to Edinburgh in 1830 or 1831, which Dr. Greville then pronounced a species quite distinct from *dilatata*. [11 64 65 90; likely all errors].

1393 Pseudathyrium. alpestre.

87 Perth west. F. M. Webb.
88 mid.
89 east.
90 Forfar. Croall sp.
92 Aber. south. Backhouse sp.
94 Banff. Roy lre.
96 Easterness !
97 Westerness !
98 Argyle.
08 Suth. west. Oliver sp.

N.B. The *Polypodium alpestre* of most botanists. There is a segregate, which has been described as a distinct species under name of *flexile*, and is stated to occur in 88 90 97 108.

1394 Athyrium F. fœmina.

Counties all, except 28 31 53 74 97 105 106. The variously named varieties shade off, one into the other, by insensible gradations; and

some of them may be seen on the same root at the same time, if early and late fronds be compared. But to this there is one decided exception, according to my experience, after cultivating it alongside the ordinary *Filix-fœmina* through a series of years. It would be named *incisum* by Mr. Newman; and is readily distinguished from ordinary *Filix-fœmina*, by its fronds having the deltoid outline and approximate pinnæ; such as are usually seen in *Lastrea æmula*. The pinnæ cease abruptly downward, leaving a lengthened naked stipes; as seen in *Polystichum angulare* contrasted against *P. lobatum*. I have vainly sought it in Surrey and adjacent counties, and suppose that my roots of it came from Wales.

1395 Asplenium viride.

35 Monmouth. Ley ms.
37 Worcester. Extinct.
39 Stafford.
41 Glamorgan. Lees sp.
42 Brecon. Ley cat.
48 Merioneth. Ralfs.
49 Carnarvon!
57 Derby.
58 Chester?
59 Lanc. south?
62 York n. east.
63 s. west?
64 m. w. R.B.Bowman sp.
65 n. west. Ward sp.
66 Durham. R.B. Bowman sp.
67 Northumberland. Winch sp.
68 Cheviotland.
69 Westmoreland!
70 Cumb. Thornhill sp.
72 Dumfries.
75 Ayr. Landsborough ms.
77 Lanark. Hennedy cat.
83 Edinburgh. Balfour cat.
85 Fife?
86 Stirling.
87 Perth west.
88 mid! Worsley cat.
89 east!
90 Forfar! H. M. Balfour sp.
92 Aber. south. Dickie cat.
95 Elgin.
96 Easterness. Stables sp.
97 Westerness.
98 Argyle. Hooker sp.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
06 Ross east. Gordon cat.
08 Suth. west. Johnston ms.
12 Shetland. Tate sp.
(13 17). [3 15 21 55 84; insufficiently vouched, errors, or introductions].

1396 A. Trichomanes.

Counties all, except 31 42 53 74 97 105 107 112; perhaps really absent from three or four of these counties. It is undergoing a process of eradication in the Metropolitan counties; being sent to Covent Garden for sale.

1397 A. marinum.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south. Coleman cat.
6 north. Thwaites ms.

9 Dorset. Pleydell cat.
10 Wight. Very rare.
14 Sussex. Bromfield sp.
41 Glamorgan. Conway sp.
44 Carmarthen. Oakeshott rec.
45 Pembroke. Babington cat.
46 Cardigan. Atwood sp.
48 Merioneth.
49 Carnarvon. Robinson cat.
52 Anglesea. Robinson cat.
58 Chester! J. L. Warren ms.
59 Lanc. south. Hall sp.
60 west.
62 York n. east.
66 Durham. R.B.Bowman sp.
67 Northumberland.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland.
71 Man. E. Forbes sp.
73 Kirkcudbright. Syme sp.
74 Wigton. Balfour sp.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
85 Fife. Balfour cat.
90 Forfar. Croall sp.
91 Kincardine. Dickson cat.
92 Aber. south ?
93 north. Dickie flo.
94 Banff. J. Roy lre.
95 Elgin. Gordon cat.
98 Argyle.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour sp.
02 Eb. south. Balfour cat.
03 mid. Syme sp.
04 north. Lawson cat.
06 Ross east. Stables sp.
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland.

1398 A. lanceolatum.

1 Corn. west ! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Goulding sp.
4 north ?
5 Som. south. Coleman cat.
14 Sussex east.
16 Kent west. Borrer ms.
34 Gloster west. Thwaites sp.
41 Glamorgan.
45 Pembroke.
48 Merioneth. Worsley.
63 York s. w. Rev. R. Agathy.
[9 10 23 40 49 64; at best doubtful, likely all errors.]

1399 A. Ad. nigrum.

Counties all, except 31 42 53 60 61 72 74 78 86 93 97 105 106 107.

1400 A. Ruta-muraria.

Counties all, except 31 42 53 71 74 97 105 106 107 112.

1400 A. germanicum.

A. alternifolium.

49 Carnarvon. Kirk sp.
68 Cheviotland. Tate sp.
70 Cumberland. Miss Wright.
80 Roxburgh. Duncan cat.
83 Edinburgh ? Dr. "Inglis."
85 Fife. Dr. "A. Dewar."
89 Perth east. (F. B. White).
[5 T. B. Flower].

1401 A. septentrionale.

3 Devon south. Rogers.
4 north. Hore sp.
5 Som. south. Edmonds sp.
48 Merioneth. Hart.
49 Carnarvon. Butler sp.
50 Denbigh.

64 York m. west.
68 Cheviot. Atkinson sp.
69 Westmoreland ?
70 Cumberland ! Hort sp.
80 Roxburgh. Duncan cat.
83 Edinburgh ! Balfour cat.
89 Perth east. Gardiner sp.
92 Aber. south. Dickie ms.
[15 90 111 ; all errors ?]

1402 Scolopendrium vulgare.

Counties all the English, except 42 43 47 48 53. In Scotland, my notes are thus :—
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Balfour sp.
79 Selkirk. Farquarson cat.
80 Roxburgh.
81 Berwick.
83 Edinburgh. Brand sp.
85 Fife. I. B. Balfour ms.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar.
91 Kincardine. Croall sp.
93 Aber. north. Dickie flo.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross cat.
04 north. Graham sp.
07 or 08 Sutherland ?
09 Caith. Brown Campst. cat.*
11 Orkney. Gillies ms.
12 Shetland. One locality.

1403 Blechnum boreale.

Counties all, except 31 42 74 98 105; likely to occur in all these counties, unless the two first nos. should be real exceptions.

1404 Pteris aquilina.

Counties all, except 74 105.

1405 Adiantum C. Veneris.

1 Corn. west. Tozer sp.
2 east.
3 Devon south. Flower sp.
4 north. J. E. Gray sp.
6 Som. north ?
9 Dorset. "Miss Payne !"
41 Glamorgan. Brent sp.
71 Man. Rylands, 1841.
N.B. Curiously enough, seedling plants of *Pteris aquilina* have been repeatedly reported as the *Adiantum*. [39 40 57 91 100].

1406 Trichomanes radicans.

41 Merioneth. Backhouse.
64 York mid west. extinct ?
98 Argyle. Landsborough.
00 Arran. Landsborough.
This fern has been reported to grow in South and North Wales, in Cornwall, West Yorkshire, Arran and Argyle. Mr. Backhouse holds it truly native in South Wales; its station being difficult of access and looking natural. But surely such a situation is the one likely to be selected for experimental introduction. The other alleged

localities are suspected to be either errors or artificial; and yet there seems no very good reason to adduce against an *à priori* likelihood of this fern being found indigenous in Britain. Why should it not be so?

1407 Hymenophyllum tunbridgense.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs sp.
4 north.
5 Som. s. Collins ms. 1860.
6 north?
13 Sussex west.
14 east. Coleman sp.
16 Kent west. Trevelyan sp.
41 Glamorgan.
48 Merioneth.
49 Carnarvon?
59 Lanc. south?
63 York s. west.
68 Cheviot. Richardson sp.
69 Westmoreland.
70 Cumberland.
72 Dumfries.
76 Renfrew. Hennedy cat.
78 Peebles.
86 Stirling. Duthie cat.
98 Argyle.
99 Dunbarton. Gourlie sp.
00 Clyde-isles. Arnott ms.
03 Eb. mid. Syme sp.
[39 42 52 57 58 62 64 102 105; not certainly erroneous, but needing verification, on account of the confusion between this and *Wilsoni*].

1408 H. Wilsoni.

H. unilaterale.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south. Briggs cat.
4 north?
39 Stafford.
40 Salop. Leighton cat.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. Jones cat.
44 Carmarthen. Motley cat.
46 Cardigan. Purchas ms.
48 Merioneth.
49 Carnarvon! Robinson cat.
52 Anglesea. Robinson cat.
59 Lanc. south.
60 west.
62 York n. east.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west.
68 Cheviotland.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Syme ms.
75 Ayr. Landsborough ms.
76 Renfrew. Hennedy cat.
78 Peebles.
85 Fife. Balfour ms.
86 Stirling. Duthie cat.
87 Perth west. Balfour ms.
88 mid! Worsley cat.
89 east.
90 Forfar. G. Macnab sp.
92 or 93 Aber. "Bennachie."
97 Westerness!
98 Argyle. Hooker sp.
99 Dunbarton. Gourlie sp.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour sp.
03 mid. Syme sp.
04 north. Lawson cat.
05 Ross w. "*Tunbridgense.*"
08 Suth. west!
10 Hebrides.
11 Orkney. Miss Boswell.

12 Shetland. Tate sp.

1409 Osmunda regalis.

1 Corn. west! Cunnack cat.
2 east. Briggs cat.
3 Devon south. Briggs cat.
4 north. Maw cat.
5 Som. south.
6 north ?
8 Wilts south ?
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south. Notcutt cat.
12 north! Townsend.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
16 Kent west.
17 Surrey! Eastmond sp.
18 Essex south. Varenne ms.
19 north. Varenne ms.
21 Middlesex. Extinct.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Hurst ms.
25 Suff. east. Bloomfield ms.
26 west. Varenne, 1856.
27 Norfolk east. Marshall ms.
28 west.
29 Cambridge. Extinct.
30 Bedford.
32 Northton. Likely extinct.
36 Hereford. Ley rec.
37 Worcester.
38 Warwick.
39 Stafford.
40 Salop. Bidwell sp.
41 Glamorgan.
42 Brecon. E. H. Jones.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Bidwell sp.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts.
58 Chester. "R. Holland."
59 Lanc. s. F. M. Webb cat.
60 west. Tatham sp.
61 York s. east.
62 n. east.
63 s. west. Leyland sp.
64 m. west. Baker sp.
65 n. west.
66 Durham. Thompson sp.
67 Northumberland.
68 Cheviotland.
69 Westmoreland!
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Lloyd ms.
73 Kirkcudbright. Gray cat.
74 Wigton. (McAndrew).
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
81 Berwick.
82 Haddington. Balfour cat.
84 Linlithgow. I. B. Balf. ms.
86 Stirling.
87 Perth west. Dewar sp.
88 mid. Worsley cat.
91 Kincardine.
98 Argyle.
99 Dunbarton! Hooker sp.
00 Clyde-isles. Balfour sp.
02 Eb. south. Balfour cat.
03 mid.
04 north. Lawson cat.
05 or 06 Ross ...?
08 Suth. west. Johnston ms.
09 Caith. Brown Campst. cat.
10 Hebrides.
12 Shetland. "one tuft."

N.B. This and the two succeeding ferns are almost too frequent to demand a detailed enumeration of their counties. And yet there are considerable blanks in the

series. In about one-third of the whole I am either absolutely without authorities for the conspicuous *Osmunda*, or it is rare, and likely to become extinct.

1410 Botrychium Lunaria.

1 Corn. west. Scilly isles.
2 east. Briggs.
3 Devon south. Briggs cat.
4 north.
5 Som. south.
6 north. Withers ms.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight.
11 Hants south.
12 north.
13 Sussex west.
14 east. Roper.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey. Wood ms.
19 Essex north. Extinct.
23 Oxford.
24 Bucks ?
25 Suffolk east.
26 west.
27 Norfolk east.
28 west. Ar. Bennett.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton.
33 Gloster east.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
44 Carmarthen. Jones rec.
45 Pembroke. Babington cat.
47 Montgomery. Bloxam ms.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester. Bloxam cat.
56 Notts.
57 Derby ! Howitt cat.
58 Chester. J. L. Warren cat.
59 Lanc. south ! Goodlad hb.
60 west.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Leyland sp.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northum. R.B. Bowman sp.
68 Cheviotland. Tate cat.
69 Westmoreland.
70 Cumberland.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh ! Balfour cat.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie rec.
87 Perth west. Syme cat.
88 mid !
89 east. Brand sp.
90 Forfar !
91 Kincardine. Syme cat.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness. Stables cat.

98 Argyle.
00 Clyde-isles. Hennedy cat.
02 Eb. south. (Grieve).
03 mid. Ross rec.
04 north. Lawson cat.
05 Ross west.
06 east. Gordon cat.
09 Caith. Brown Campst. cat.
11 Orkney. Syme cat.
12 Shetland. Tate sp.

1411 Ophioglossum vulgatum.

1 Corn. west. Cunnack cat.
2 east. Briggs.
3 Devon south. Briggs cat.
4 north.
5 Som. south.
6 north.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. Townsend.
12 north.
13 Sussex west. Weaver sp.
14 east. Coleman cat.
15 Kent east. F. Brent sp.
17 Surrey! Wood ms.
18 Essex south. Syme sp.
19 north. Varenne cat.
20 Herts. Fordham sp.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suff. east. Bloomfield ms.
26 west.
27 Norf. east. Woodward sp.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth.
36 Hereford. Purchas cat.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop. Bidwell sp.
41 Glamorgan. "Young."
43 Radnor. E. H. Jones cat.
44 Carmarthen. Jones rec.
45 Pembroke. Bailey ms.
49 Carnarvon. Robinson cat.
50 Denbigh. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
53 Linc. south. Fowler rec.
54 north. Bogg cat.
55 Leicester. Bloxam cat.
56 Notts. Howitt sp.
57 Derby. Howitt sp.
58 Chester! J. L. Warren cat.
59 Lanc. south! Goodlad hb.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker ms.
63 s. west. Lees cat.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Norman cat.
67 Northumberl. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
84 Linlithgow. Brand sp.
85 Fife. Dewar sp.
86 Stirling. Croall rec.
87 Perth west.
88 mid. (F. B. White).
89 east.

90 Forfar ?
91 Kincardine.
93 Aber. north. Roy lre.
95 Elgin. Gordon cat.
98 Argyle.
00 Clyde-isles. Hennedy cat.
11 Orkney. Syme sp. a var.
12 Shetland. 1 loc. in Ed. flo.
N.B. Contrary to what is said in Fern-books, the Adder's Tongue is easily transplanted from the fields, and may be kept in the garden with little care for its safety there.

1411*O. ambiguum.

1 Scilly isles. Curnow.
48 Merioneth. Bailey.
11 Orkney. Syme.

1412 Lycopodium clavatum.

2 Corn. east. Briggs cat.
3 Devon south.
4 north !
5 Som. south. Coleman cat.
6 north.
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More ms. 1869.
11 Hants south.
12 north.
13 Sussex west. Freeman sp.
14 east. Coleman cat.
17 Surrey ! Salmon sp.
18 Essex south.
20 Herts.
21 Middlesex.
22 Berks.
23 Oxford.
24 Bucks.
26 Suff. west. Bloomfield ms.
27 Norfolk east.
28 west.
29 Cambridge. Babington cat.
30 Bedford.
36 Hereford. Purchas ms.
37 Worcester.
38 Warwick. Kirk ms.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
43 Radnor. Ley cat.
45 Pembroke. Jones rec.
46 Cardigan.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denbigh ! J.E.Bowman cat.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler rec.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby. Howitt cat.
58 Chester.
59 Lanc. south. Goodlad hb.
62 York n. east. Baker ms.
63 s. west. Lees cat.
64 m. w. Tatham cat.
65 n. west.
66 Durham. Norman cat.
67 Northumb. Makepeace sp.
68 Cheviotland. Tate cat.
69 Westmoreland !
70 Cumberland !
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
85 Fife.
86 Stirling.
87 Perth west. Syme cat.
88 mid ! Worsley cat.
89 east !
90 Forfar ! Gardiner sp.

91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Grieve.
98 Argyle.
00 Clyde-isles. Hennedy cat.
03 Eb. mid. Ross rec.
04 north. Lawson cat.
06 Ross east. Gordon cat.
09 Caith. Brown Campst. cat.
11 Orkney. Syme cat.
12 Shetland.
[25].

1413 L. annotimun.

49 Carnarv. J. E. Bowman cat.
69 Westm. H. E. Smith sp.
70 Cumberl. "H. E. Smith."
88 Perth mid! Syme sp.
89 east. (F. B. White).
90 Forfar!
92 Aber. south! Hooker sp.
94 Banff. Gordon ms.
95 Elgin. Gordon cat.
96 Easterness!
97 Westerness!
00 Clyde-isles. N. Hist.
03 Eb. mid. Syme sp.
05 Ross west. Stables sp.
09 Caithness. "Anderson."
11 Orkney. Syme ms.
[21 error. 55 59 66 dubious].

1414 L. inundatum.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south.
4 north. Briggs.
5 Som. south. Coleman cat.
7 Wilts north. Flower cat.
8 Wilts south.
9 Dorset. Pleydell cat.
11 Hants south! Townsend.
12 north! Townsend.
13 Sussex west. Freeman sp.
14 east.
15 Kent e. G. E. Smith cat.
16 west.
17 Surrey! Salmon sp.
18 Essex south.
19 north. Varenne sp.
21 Middlesex.
22 Berks!
24 Bucks. Britten cat.
25 Suff. east. Paget sp.
26 west. Bloomfield.
27 Norfolk east. Cooper sp.
28 west. Wardale sp.
29 Cambridge. Babington cat.
30 Bedford.
31 Hunts. Berkeley ms.
37 Worcester. E. Lees sp.
38 Warwick. Kirk ms.
39 Stafford.
48 Merioneth. Ralfs.
49 Carnarvon. Robinson cat.
54 Linc. north. Fowler rec.
55 Leicester.
56 Notts.
57 Derby.
58 Chester. J. L. Warren ms.
59 Lanc. south. Hobson sp.
61 York s. east.
62 n. east. Baker ms.
63 s. west. Leyland sp.
69 Westmoreland.
70 Cumb. Miss Edmonds sp.
85 Fife. I. B. Balfour ms.
88 Perth mid. Worsley, 1869.
89 east.
90 Forfar.
91 Kincardine?
95 Elgin. Gordon cat.
96 Easterness. Stables sp.
99 Dunbarton. Balfour sp.
05 Ross west.

06 Ross east. "Wilson" sp.
N.B. Is this lycopod very scarce in Wales and some adjacent counties? I have not seen any specimen from Wales, and can cite from my notes only the single authority named for Carnarvon, —a county in which Mr. Robinson indicates all the species as actually seen there by himself.

1414*L. complanatum.

33 Gloster east. (Reader).
55 Leicester. (Church. Bab.)
90 Forfar. (Druce).
02 Eb. south. (Lawson).
(12 37; require further investigation).

1415 L. alpinum.

5 Som. south. Coleman sp.
42 Brecon.
43 Radnor. E. H. Jones cat.
45 Pembroke. Jones rec.
46 Cardigan.
47 Montgomery.
48 Merioneth.
49 Carnarvon! Robinson cat.
51 Flint.
50 Denb. J. E. Bowman cat.
54 Linc. n. Extinct. F. A. Lees.
57 Derby.
58 Chester.
59 Lanc. south.
62 York n. east. Baker ms.
63 s. west.
64 m. west. Tatham cat.
65 n.w. R.B. Bowman ms.
66 Durham. Norman cat.
67 Northumb. Thompson ms.
68 Cheviotland. Tate ms.
69 Westmoreland!
70 Cumberland! Baker cat.
71 Man. Forbes cat.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
78 Peebles. Brotherston cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
83 Edinburgh. Balfour cat.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar! Croall sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness! Grieve.
00 Clyde-isles. Hennedy cat.
04 Eb. north. Lawson cat.
06 Ross east. Gordon ms.
08 Suth. west!
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Gillies herb.
12 Shetland. Tate sp.
[37 40 41; confirmation is needed for these counties].

1416 L. Selago.

1 Corn. west. Cunnack cat.
2 east.
3 Devon south! Briggs cat.
4 north.
5 Som. south. Coleman sp.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Mansell-Pleydell.
11 Hants south. Groves rec.
12 north!

13 Sussex west. Freeman sp.
14 east. Roper.
17 Surrey.
23 Oxford.
24 Bucks ?
27 Norfolk east.
36 Hereford.
37 Worcester.
38 Warwick. Extinct.
39 Stafford.
40 Salop. E. Lees sp.
41 Glamorgan.
42 Brecon. Ley cat.
43 Radnor. E. H. Jones cat.
45 Pembroke. Jones rec.
46 Cardigan.
48 Merioneth. Lees sp.
49 Carnarvon ! Robinson cat.
50 Denb. ! J. E. Bowman cat.
52 Anglesea. Robinson cat.
55 Leicester. Ch. Bab. sp.
56 Notts.
57 Derby !
58 Chester !
59 Lanc. south. Goodlad hb.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker ms.
63 s. west.
64 m. w. Tatham cat.
65 n. w. R. B. Bowman sp.
66 Durham. R. B. Bowman sp.
67 Northumberland. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland !
70 Cumberland ! Baker cat.
71 Man. Forbes cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Balfour cat.
86 Stirling. Croall cat.
87 Perth west. Syme cat.
88 mid ! Worsley cat.
89 east !
90 Forfar ! Croall sp.
91 Kincardine. Dickson cat.
92 Aber. south ! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness ! Stables cat.
97 Westerness ! Grieve.
98 Argyle.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
03 mid. Syme sp.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west !
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.

N.B. To the botanist of North Britain it will appear rather odd that *Selago* should be treated as an uncommon plant, being one which he is perhaps accustomed to see on almost every mountain and moor. Let him botanize in South Britain, and he will find the case widely different. Among the forty English counties, included in South Britain, my collected notes shew authorities for twenty only; and *Selago* is a decided rarity in most of those counties, even doubtful in two or three of them. Those who look at Britain as a whole will get very different notions about common or uncommon

plants, as compared with those who look chiefly to sections of the whole.

1417 L. selaginoides.

49 Carnarvon! Howitt sp.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
54 Linc. north. Fowler.
57 Derby.
58 Chester. F. Brent sp.
59 Lanc. south!
61 York s. east.
62 n. east.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward sp.
66 Durham.
67 Northumb. Storey sp.
68 Cheviotland. Tate cat.
69 Westmoreland!
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington.
83 Edinburgh. Howitt sp.
85 Fife. I. B. Balfour ms.
86 Stirling.
87 Perth west. Syme cat.
88 mid! Worsley cat.
89 east!
90 Forfar! Croall sp.
91 Kincardine. Syme cat.
92 Aber. south! Dickie sp.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
98 Argyle.
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
01 Cantire. Balfour cat.
02 Eb. south. Balfour cat.
03 mid. Ross rec.
04 north. Lawson cat.
06 Ross east. Gordon cat.
08 Suth. west!
09 Caithness. Balfour cat.
10 Hebrides.
11 Orkney. Syme cat.
12 Shetland. Tate cat.

[3 4; not a very unlikely plant to occur on Dartmoor or Exmoor, but the published authorities are unreliable].

1418 Isoetes lacustris.

40 Salop.
48 Merioneth. Hort ms.
49 Carnarvon. Brent sp.
50 Denb. J. E. Bowman ms.
69 Westmoreland.
70 Cumb. Miss Edmonds sp.
85 Fife. Arnott ms.
86 Stirling.
87 Perth west. Syme.
88 mid. Greville sp.
89 east.
90 Forfar. Graham sp.
92 Aber. south. Brand sp.
94 Banff. Roy ms. 2100 feet.
96 Easterness.
97 Westerness. Sadler.
99 Dunbarton. Babington ms.
00 Clyde-isles. Hennedy cat.
04 Eb. north.
07 Suth. east.
09 Caith. Brown Campst. cat.

[40 41 62 67; these four counties require to be verified afresh. I have seen the *Littorella* labelled as *Isoetes*, and by more than a single botanist of fair knowledge].

1418*I. echinospora.

49 Carnarvon.
91 Kincardine.
92 Aberdeen south.
99 Dunbarton.
03 Ebudes mid. Ross.
10 Hebrides ?

1419 Pilularia globulifera.

1 Corn. west. Cunnack cat.
2 east. Pascoe cat.
3 Devon south.
6 Som. north.
8 Wilts south. Flower cat.
9 Dorset. Pleydell cat.
11 Hants south! Townsend.
12 n.! J. L. Warren ms.
14 Sussex east.
17 Surrey!
18 Essex south.
20 Herts. One loc. in Flora.
21 Middlesex.
24 Bucks.
25 Suffolk east.
27 Norfolk east.
32 Northampton.
38 Warwick. Kirk cat.
39 Stafford.
40 Salop.
41 Glamorgan.
43 Radnor. E. H. Jones cat.
45 Pembroke.
47 Montgomery. Melvill cat.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
52 Anglesea. Robinson cat.
55 Leicester.
58 Chester. Bickham sp.
59 Lanc. s. F. M. Webb cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west. Parsons rec.
64 m. west.
65 n. west. Ward cat.
67 Northum. R.B. Bowman sp.
70 Cumberland.
72 Dumfries.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
83 Edinburgh! Twynam sp.
84 Linlithgow. I. B. Balf. ms.
85 Fife.
87 Perth west. Craig-Christie.
88 mid. (F. B. White).
89 east.
90 Forfar. Brand sp.
91 Kincardine. Dickie sp.
92 Aber. south.
95 Elgin. "Rev. G. Wilson."
99 Dunbarton.
04 Eb. north. Lawson cat.
07 Suth. east. Campbell sp.

N.B. Likely the Pillwort is more frequent than would appear from this comital enumeration; an inconspicuous plant, the finding of which depends much on the evaporation from its watery stations. Drainage may have destroyed it in some places.

1420 Equisetum maximum.

(*E. Telmateia*).

1 or 2 Cornwall. Pascoe ms.
3 Devon south. Briggs cat.
4 north ?
5 Som. south. Coleman cat.
6 north. Thwaites cat.
7 Wilts north. Flower cat.
8 south. Flower cat.
9 Dorset. Pleydell cat.
10 Wight! More cat.
11 Hants south! Notcutt cat.
12 north! Townsend.
13 Sussex west. Borrer cat.
14 east. Coleman cat.

15 Ken e. G. E. Smith cat.
16 west.
17 Surrey! J. L. Warren ms.
18 Essex south.
19 north. Varenne cat.
20 Herts. Coleman cat.
21 Middlesex. Barham sp.
22 Berks. Britten cat.
23 Oxford. Beesley cat.
24 Bucks. Britten cat.
25 Suffolk east. Purchas cat.
26 west.
27 Norfolk east.
28 west.
29 Cambridge. Marshall sp.
30 Bedford. Newbould ms.
32 Northton. Notcutt cat.
33 Gloster east. Prentice cat.
34 west. Thwaites cat.
35 Monmouth. Ley rec.
36 Hereford.
37 Worcester.
38 Warwick. Kirk cat.
39 Stafford. Fraser cat.
40 Salop. Leighton cat.
41 Glamorgan.
44 Carmarthen. Motley cat.
45 Pembroke. Babington cat.
46 Cardigan. H. L. Jones cat.
48 Merioneth. (Reeves).
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
52 Anglesea.
54 Linc. north. Fowler rec.
55 Leicester.
57 Derby. Howitt cat.
58 Chester! J. L. Warren cat.
59 Lanc. south. Goodlad hb.
60 west. Linton cat.
61 York s. east.
62 n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham. Storey sp.
67 Northumb. Oliver sp.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland. Baker cat.
75 Ayr. Landsb. Bot. Ayr.
76 Renfrew. Montgomery cat.
77 Lanark. Hennedy cat.
81 Berwick. Boswell-Syme.
83 Edinburgh. Balfour cat.
85 Fife ?
90 Forfar ? Gard. flo.
00 Clyde-isles. Balfour sp.
01 Cantire. Balfour cat.
02 Eb. south. Balfour sp.
04 north. Lawson cat.

[91 92, *fide* Flora Abredonensis; but not found in Kincardine or Aberdeen, *fide* J. Roy ms. 111 Orkney, *fide* Lowe].

1421 E. umbrosum.

(*E. pratense*).

59 Lanc. south ?
65 York n. west.
66 Durham.
68 Cheviotland. Storey sp.
69 Westmoreland.
77 Lanark. Balfour sp.
83 Edinburgh. Balfour cat.
84 Linlithgow. Campbell sp.
85 Fife. Boswell-Syme sp.
86 Stirling. Gourlie sp.
87 Perth west. Dewar sp.
88 mid. Pagan.
89 east. H. M. Balf. sp.
90 Forfar. Roy ms.
91 Kincardine.
92 Aber. south. H. M. Balf.
94 Banff. J. Roy ms.
09 Caith. Brown Campst. cat.

1422 E. arvense.

Counties all, except 48 71 73

74 105: very likely it occurs in every county.

1423 E. sylvaticum.

3 Devon south.
4 north?
6 Som. north?
7 Wilts north. Flower cat.
9 Dorset. Pleydell cat.
10 Wight. More cat.
11 Hants south. H. Groves.
14 Sussex east. Coleman cat.
15 Kent east.
17 Surrey!
18 Essex south.
19 north.
20 Herts. Coleman cat.
21 Middlesex. Hind cat.
22 Berks. Britten cat.
23 Oxford.
24 Bucks. Britten cat.
27 Norfolk east.
29 Cambridge. Extinct.
32 Northton. Notcutt cat.
33 Gloster east. Prentice ms.
36 Hereford. Purchas cat
37 Worcester. Bagnall ms.
38 Warwick. Kirk cat.
39 Stafford. Douglas cat.
40 Salop.
41 Glamorgan.
43 Radnor. Ley cat.
44 Carmarthen. Motley cat.
45 Pembroke. Purchas ms.
46 Cardigan.
47 Montgomery. Ley cat.
48 Merioneth.
49 Carnarvon. Robinson cat.
50 Denb. J. E. Bowman cat.
51 Flint. Robinson cat.
54 Linc. north. J. E. Lees rec.
55 Leicester. Coleman cat.
56 Notts.
57 Derby. Howitt sp.
58 Chester! J. L. Warren cat.
59 Lanc. s.! F. M. Webb cat.
60 west. Simpson sp.
62 York n. east. Baker cat.
63 s. west.
64 m. west. Tatham cat.
65 n. west. Ward cat.
66 Durham.
67 Northumb. Storey cat.
68 Cheviot. Embleton cat.
69 Westmoreland.
70 Cumberland! Baker cat.
72 Dumfries. Gray cat.
73 Kirkcudbright. Gray cat.
75 Ayr. Duncan cat.
76 Renfrew. Hennedy cat.
77 Lanark. Hennedy cat.
79 Selkirk. Farquharson cat.
80 Roxburgh. Duncan cat.
81 Berwick.
82 Haddington. Balfour cat.
83 Edinburgh. Brand sp.
84 Linlithgow. Balfour cat.
85 Fife. Syme cat.
86 Stirling. Duthie cat.
87 Perth west. Syme cat.
88 mid!
89 east!
90 Forfar!
91 Kincardine. Croall sp.
92 Aber. south! Dickie cat.
93 north. Dickie flo.
94 Banff.
95 Elgin. Gordon cat.
96 Easterness! Stables cat.
97 Westerness!
99 Dunbarton.
00 Clyde-isles. Hennedy cat.
02 Eb. south. Balfour cat.
04 north. Lawson cat.
06 Ross east!
07 Suth. east!
09 Caith. Brown Campst. cat.
10 Hebrides.
11 Orkney. Syme sp.
12 Shetland. Tate sp.
[25 or 26 Suffolk. "Moore."]

1424 E. palustre.

Counties all, except 31 35 46 47 48 51 71 74 97 105 107 108; likely to occur in every county.

1425 E. limosum.

Counties all, except 1 4 8 33 34 35 42 47 48 51 71 74 97 105 107 108. Although less common than *palustre*, this species may be expected in most of the counties here enumerated negatively as exceptional. Some confusion has occurred between *limosum* and *maximum*, through the name *fluviatile* having been used in two different applications, either as a synonym for *maximum* (at length reached, after the intermediately applied name of *Telmateia*) or for the branched states of this present *limosum*.

1426 E. hyemale.

15 Kent e. G. E. Smith cat.
17 Surrey. Salmon sp.
26 Suffolk west. Bloomfield.
29 Cambridge. Extinct?
30 Bedford.
36 Hereford.
37 Worcester.
38 Warwick?
39 Stafford?
40 Salop. "Bloxam."
41 Glamorgan. "Moggridge."
50 Denb. J. E. Bowman cat.
51 Flint?
55 Leicester. Ch. Bab. sp.
56 Notts. Howitt sp.
58 Chester. J. L. Warren ms.
59 Lanc. south. Goodlad hb.
62 York n. east. Baker sp.
63 s. west.
64 m. west.
65 n. west. Ward cat.
66 Durham.
67 Northum. R.B. Bowman sp.
68 Cheviotland. Tate cat.
69 Westmoreland.
70 Cumberland.
73 Kirkcudbright.
75 Ayr. Boswell Syme sp.
77 Lanark. Hennedy cat.
81 Berwick.
83 Edinburgh! Balfour cat.
87 Perth west.
88 mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Gardiner sp.
91 Kincardine. "Lindsay" sp.
92 Aber. south?
94 Banff. "J. Bissett!"
95 Elgin. Gordon sp.
96 Easterness. Croall rec.
06 Ross east. Gordon cat.
[4 6 7 8 21; insufficiently vouched, and some of them likely erroneous].

1428 E. variegatum.

3 Devon south. Carpenter sp.
6 Som. north? "*arenarium*."
28 Norf. w. Rev. H. Williams.
49 Carnarvon. Robinson cat.
51 Flint. Robinson cat.
58 Chester! Lieut. Phillips sp.
59 Lanc. s. F. M. Webb cat.
64 York m. west. Tatham cat.
65 n. west. Baker cat.
66 Durham. R. B. Bowman sp.
67 Northumb. Winch sp.
70 Cumberland. Storey sp.
77 Lanark. Hennedy cat.
82 Haddington. Balfour cat.

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85 Fife.
88 Perth mid. (F. B. White).
89 east. (F. B. White).
90 Forfar. Greville sp.
91 Kincardine. "Lindsay" sp.
00 Clyde-isles. Balfour sp.
06 Ross east. Gordon sp.

Mr. C. C. Babington, M.A. Prof. Bot. Cambridge.

29. London Catalogue, edition sixth, checked for plants seen in the county of Cambridge. This may be held a list of all the species treated in Professor Babington's excellently worked out *Flora of Cambridge*, excepting those not actually seen within the county by its Author. The Flora was not itself formally quotable in this work, *firstly*, because it is a compilation or summary of the local reports on various personal testimony; and, *secondly*, because it has been made a rule in this work not to quote books, but persons.

45. London Catalogue, edition third, checked for plants seen in the county of Pembroke. Date of 1851. (Professor Babington subsequently printed his list of Pembroke plants, in 'Seemann's Journal of Botany,' September, 1863).

(We are indebted to Professor Babington for the whole of the account of the distribution of the frutiose Rubi in this edition).

Mr. John Gilbert Baker.

12. London Catalogue, edition sixth, checked for plants observed in July, 1869, about Liphook and Woolmer. Used, but scarcely quoted, because the vice-county of North Hants had been entered in my notes from other sources before receipt of this catalogue.

13. London Catalogue, edition sixth, checked for plants seen in July, 1869, in North-west Sussex, near Shotter Mill, Lynchmere, and Fernhurst.

62. London Catalogue, edition second, checked for plants

seen within five miles of Thirsk, in the vice-county of North-east York A second series of marks distinguishes other plants found elsewhere in the same vice-county, beyond the five-mile radius. For these plants the catalogue is cited as "Baker cat. co." or simply as "Baker ms." Mr. Baker's admirable work "*North Yorkshire; Studies of its Botany, Geology, Climate and Physical Geography*" is of later date, 1863, and embraces also the vice-county of North-west York, along with a portion of Mid-west York,—'The Ainsty,' situate to the southward of the other two vice-counties.

70. London Catalogue, edition sixth, checked for plants seen in the county of Cumberland, during a brief sojourn there in 1872.

61, 62, 63, 64, 65. To Mr. Baker also I was indebted for a most useful operation, without which I should have been put to much trouble and with incomplete success, in assigning the localities of the 'Flora of Yorkshire' to their proper vice-counties. In a copy of his *Supplement to Baines' Flora of Yorkshire* Mr. Baker kindly noted on the margins of the pages, by their corresponding nos. 1 2 3 4 5, the vice-counties to which the localities of the Flora were to be assigned. With comparatively few exceptions the citation of "61 York s. east" has been drawn entirely from the paginal margins of this special and most serviceable copy of the *Supplement* here under notice. It would hardly be possible to over-estimate the botanical assistance which my own writings have derived from Mr. Baker's published works, manuscript notes, numerous specimens, &c.

Dr. J. H. Balfour. Late Reg. Prof. Bot. Edinburgh.

82, 83, 84, 85. London Catalogue, edition sixth, checked to shew the plants seen in the Forth counties;—distinguishing the four counties of Haddington, Edinburgh, Linlithgow, and Fife, by means of their abbreviated names set after the names of the plants. The Catalogue is quoted in accordance; and it is hoped that mistakes have been avoided in enumerating the several

counties thus certified, under the various species; but the compression of four county lists on to a single copy of the London Catalogue was found to be rather confusing in referencial use.

101, 102. London Catalogue, edition first, checked for plants seen in the Mull of Cantire, a vice-county of Argyle, and in Isla, the principal isle in the vice-county of South Ebudes. (This catalogue has been subsequently published in the Phytologist, volume second).

Prof. Isaac Bayley Balfour.

83, etc. London Catalogue, edition sixth, checked for additional plants of the Forth counties, as a short list supplementary to the above-mentioned Catalogue checked for this work by his Father, Professor John Hutton Balfour. The additions mostly falling under the category of introduced species, it was seldom needful to cite Mr. I. B. Balfour's Catalogue, and the alternative form of "ms." was therefore preferred instead.

Mr. Thomas Beesley.

23. "The Botany of the neighbourhood of Banbury," in the county of Oxford. This list formed a portion of *The History of Banbury, by Alfred Beesley*, 1841. I was under obligation to Mr. Thomas Beesley for a separate copy of *The Botany*, interleaved, annotated and added to it in manuscript; thus brought under the rules of an original and personally vouched list.

Miss Bell. (Formerly of Stow Vicarage).

27, 28. Alphabetical Catalogue of plants found in the county of Norfolk, chiefly in West Norfolk;—either seen there by Miss Bell, or represented by Norfolk specimens in her herbarium. Date of 1832. This is the "Bell cat." of the New Botanist's-Guide. Along with various manuscript notes, made on the printed catalogue or sent apart, the list is quoted in this present work as "Miss Bell ms." or shortly as "Bell ms."

Rev. E. N. Bloomfield.

25, 26. London Catalogue, checked for plants seen in East Suffolk. A second set of marks to indicate those (fewer) seen in West Suffolk.

Mr. Thomas Bates Blow.

20. Manuscript list of plants observed in the county of Hertford. Date of 1873. This list is seldom cited; having been received at a late date, and relating to a county for which Mr. Coleman's list had already been used.

Rev. Andrew Bloxam.

38. London Catalogue, edition second, checked for plants seen within three miles of Atherstone, all in the county of Warwick.

55. London Catalogue, edition second, checked for plants seen within three miles of Twycross, all in the county of Leicester.

Mr. Thomas Wemyss Bogg.

44. London Catalogue, edition fifth, checked for plants seen within ten miles of Louth, in the vice-county of North Lincoln. This list was very acceptable, although not numerous in its species. So much at a loss had I been for any list of the commoner plants found in Lincolnshire, as to have felt it necessary to visit that county myself in order to become warranted in stating "buttercups and daisies" do certainly grow there.

Mr. William Borrer.

13. London Catalogue, edition second, checked for plants seen within three or four miles of Henfield, in the vice-county of West Sussex. Additional marks used to distinguish other plants found in the county at greater distances from Henfield. The citation of "Borrer cat. co." is given under several of the plants which were so marked in the list; the proper vice county having been ascertained from Mr. Borrer's manuscript notes, or

from records printed elsewhere. My own estimate of Mr. Borrer, as a truly faithful recorder of plant-localities, has been given in a former work, namely, in a *Supplement* to the *Compendium of Cybele Britannica*, page 115.

Mr. J. E. Bowman.

50. Alphabetical Catalogue of plants checked for those seen in the neighbourhood of Wrexham, in the county of Denbigh;—supplemented by marks to the names of other plants seen elsewhere in the same county; also with manuscript notes of the rare plants seen in other counties of North Wales, or in Cheshire and Shropshire. The name of "Bowman" cited as the authority for plants in any of those counties, will be understood to stand for Mr. J. E. Bowman, late of Wrexham.—The same surname, if cited as the authority for any county or vice-county in the provinces of Humber or Tyne, will always intend Mr. R. B. Bowman of Richmond, or of Newcastle on Tyne. Many of the specimens for which my herbarium was under obligation to this last named botanist, had been collected by Miss Mary Jane Hancock, and that Lady's name is occasionally quoted in my notes (and thus, here also) instead of the name of the actual donor of them, Mr. R. B. Bowman.

Rev. W. T. Bree.

38. Alphabetical Catalogue of plants checked for those seen in the county of Warwick, chiefly about Allesley and Coleshill. This catalogue was used in the New Guide; but it has been superseded subsequently by the arranged London Catalogue checked for the county by Mr. Thomas Kirk. (Mr. Bagnall has very lately favoured me with many notes on the plants and localities in Warwickshire and the adjacent Staffordshire).

Mr. T. R. Archer Briggs.

2. London Catalogue, edition sixth, checked for plants seen in the vice-county of East Cornwall. Dated 1871.

3. London Catalogue, edition sixth, checked for plants seen in the vice-county of South Devon, chiefly those in the neighbourhood of Plymouth. Dated 1871. Mr. Briggs has further supplemented these two catalogues, from time to time, by many specimens and valuable notes relating to the plants of these two vice-counties).

Mr. James Britten.

22. London Catalogue, edition sixth, checked for plants seen in the county of Berks. Date of 1873.

24. London Catalogue, edition sixth, checked for plants seen in the county of Buckingham. Date of 1873.

44. Manuscript list of 183 plants observed between Berwyn and Dolgelly, Merionethshire, June 1877.

Dr. Robert Brown. "Campsteriensis."

109 London Catalogue, edition sixth, checked for plants seen in the county of Caithness;—partly by himself; partly by the late Mr. Robert Dick, the re-discoverer of *Hierochloe borealis* in Scotland;—with some additions subsequently made to the original list drawn up in 1861–2 by Mr. C. W. Peach.

Rev. W. H. Coleman.

5. London Catalogue, edition second, checked for plants seen during a sojourn in the vice-county of South Somerset, in the spring and early summer of 1849. The list of plants relates to the vicinity of Minehead and Dunster; and takes (*firstly*) a radius of five miles, with (*secondly*) an extension of the same so as to shew other plants distant between five and ten miles. Practically for the object sought in this present work, the Catalogue is thus one for the north-western portion of the vice-county of South Somerset.

14, 17. Manuscript Catalogue of plants seen in the neighbourhood of East Grinstead, in the vice-county of East Sussex; the area extending partially into the county of Surrey also.

Localiites are given for several of the rarer plants; some of them being so indicated for Surrey only. All others are assumed to occur in the vice-county of East Sussex.

19, 25 26. Manuscript "Catalogue of plants observed near Dedham, in the counties of Essex and Suffolk." No date, but probably made in 1837. Here also a series of localities for the rarer species is appended to the general list. These special details enable me to place the plants under their respective counties; but I have still been at fault with regard to several of the Suffolk plants, whether to treat them as belonging to East Suffolk or to West Suffolk. For instance, under *Corydalis claviculata*, the entry of "Suff. west. Coleman ms." probably ought to have run thus instead "Suff. east. Coleman ms." It may be observed, that the idea of equalizing the counties somewhat better, by subdividing the larger of them into two or more vice-counties, was not acted upon until after the date of Mr. Coleman's manuscript lists.

20. Manuscript "Catalogue of plants observed near Hertford" . . . . "a circle of five miles round the town" . . . "during 1838 and 1839." It was a forerunner of the *Flora of Hertford*, the joint work of Webb and Coleman. This was a well worked out Flora, with one great defect such as we could never have anticipated from Coleman, who really did possess sound ideas on the requirements of science and facilities for its references; namely, the quoting of three dozen correspondents by *initials* instead of names. See further on this subject under "Varenne."

55. London Catalogue, edition second, checked for plants seen in the neighbourhood of Ashby-de-la-Zouch, in the county of Leicester, either within the distance of three miles, or beyond three and within seven miles. Through an accident, this Catalogue is less cited than it might have been otherwise. In her *Flora of Leicestershire*, Miss Mary Kirby had the efficient aid of three clerical botanists well qualified by their local and general knowledge of British botany, namely, the Reverends Bloxam, Coleman, and Churchill Babington.

Mr. Charles Conway.

35. Manuscript list of plants seen in the neighbourhood of Pontnewydd Works, in the county of Monmouth. This list did not profess to be a full enumeration for the county; so far as it goes, it still remains the only general catalogue of Monmouthshire plants in my possession. Its date was probably in 1836; having come into use in the Supplement to the New Botanist's-Guide.

Mr. James Cunnack.

1. London Catalogue, edition sixth, checked for the vice-county of West Cornwall. (To Mr. Cunnack I am further under obligation for specimens of several of the very local plants found in West Cornwall chiefly or exclusively).

Dr. George Dickie. Late Prof. Bot. Aberdeen.

92. London Catalogue, edition fifth, checked for plants seen in the vice-county of South Aberdeen. This catalogue, of more recent date, and relating to a single vice-county, of course has superseded the "Catalogue of plants within fourteen miles of Aberdeen," which was used in the New Guide.

93. London Catalogue, edition fifth, checked for plants seen (or reported to be found) in the vice-county of North Aberdeen As Dr. Dickie was not in a position to make out an approximately complete list of plants for North Aberdeen, as an eye-witness, he was requested to make it a compilation. In order to mark the difference, the abbreviation "flo." is substituted for "cat." (Dr. Dickie's very useful work, "*The Botanist's Guide to the counties of Aberdeen, Banff, and Kincardine*," is occasionally referred to in some abbreviated form, as "Dickie Guide" or more briefly as "D.G.")

Mrs. Dickson. (Miss Penelope Scott.)

91 London Catalogue, edition third, checked for plants seen in the county of Kincardine by herself or her sister Mrs. Farquhar

(Miss Diana Scott)—daughters of Mr. David Scott, late of Brotherton.

Rev. Robert C. Douglas.

89. London Catalogue, edition third, checked for plants seen within three miles of Stafford. Dated 1851.

Rev. James Duncan.

89. Manuscript Flora of Jedburgh, in the county of Roxburgh. Date about 1830.

Rev. J. P. Duncan.

75. London Catalogue, edition sixth, checked for plants seen in the county of Ayr. Ayrshire lists now include a considerable sprinkling of casual plants, introduced through ballast or otherwise, and several of them likely to be temporary only; Mr. Duncan allowed me to pass over any of these in his Catalogue, without even so much notice as (75). The considerable county of Ayrshire had long been a difficulty with me, through the want of any general list of its plants and their localities. Recently, this want has been partly supplied by the Rev. D. Landsborough's printed list of the less common plants; but being a printed list and one in which the plants are only partially given on Mr. Landsborough's single authority, it is of course not one of the quotable lists here.

Mr. J. F. Duthie.

86. London Catalogue, edition seventh, checked for plants seen in Stirlingshire in 1875.

Mr. Robert Embleton.

68. London Catalogue, edition second, checked for plants seen within four miles of Embleton, in the vice-county of Cheviotland. To Mr. Embleton, a botanical friend from our Student days, I have been constantly indebted also for keeping me posted up

in the Proceedings of the Berwickshire Naturalists' Club, actively carried on for many years.

Mr. Thomas Bruges Flower.

7. London Catalogue, edition second, checked for plants seen in North-west Wilts. Also, another copy of the same Catalogue checked for the plants of North-west Wilts; the two taken together constituting a list of plants seen in the vice-county of North Wilts.

8. London Catalogue, edition second, checked for plants seen in the vice-county of South Wilts. Mr. Flower's Flora of Wiltshire, printed by a local Society in successive parts, is now completed. The typographical arrangement renders it an inconvenient Flora to consult with others, and consequently the earlier Catalogues have not always been verified by the later Flora. In some instances there are botanical discrepancies not easily understood.

Mr. Edward Forbes. Prof. Nat. Hist. Edinburgh.

71. Manuscript list of plants observed in the Isle of Man. This catalogue has been given up to a gentleman taking a special interest in the botany of that island. Its date was somewhere about 1833 or 4; and it was written when Mr. Forbes was quite a young man, before his attention had been drawn from botany to the more showy studies, in which he became eminent. See the New Botanist's-Guide for further explanations of the Manx list.

Dr. John Fraser.

39. London Catalogue, edition sixth, checked for plants seen in the county of Stafford. Dr. Fraser obligingly furnished this catalogue on direct application to him in 1873. Being for the county generally it is more ample than the one checked for the county-town by the Rev. R. C. Douglas. Unfortunately, much of this work was already printed off before Dr. Fraser's assistance

was applied for; and thus his catalogue could be quoted only in the latter portion of the county lists, where it is made supplementary to that of the Rev. R. C. Douglas.

Mr. George Stacey Gibson.

1, 2. Alphabetical Catalogue (Edinburgh) checked to show the plants observed in the county of Cornwall in 1846. As this list relates to the whole county, not specially to a vice-county, it is scarcely used in this work. Besides which, its alphabetical arrangement would render it non-eligible in comparison with those lists made out by checking names in the London Catalogue, to which all the books of the present compiler have been adapted in names and numerical order.

Dr. Gillies. "Gillies herb."

111. Manuscript "Flora Orcadensis," including plants found in Orkney by Dr. Gillies himself or by Mr. Alexander Duguid,—with the addition of those mentioned in Neill's Tour in the Orkney Isles, and in "a list inserted in Barry's History of Orkney, from the MSS. of the Rev. Mr. Lowe." This Flora was given to me by Dr. Gillies in 1832, and was then probably several years old. Being thus a compilation, and including one authority (Lowe) very little to be relied upon, the Flora might have passed unnoticed in this present work, except for a connected circumstance. Some years afterwards I bought from Mr. Pamplin of London a small collection of Orkney plants, "collector unknown." The handwriting on several of the labels, the special stations, and two or three misnomers, all assisted to shew that the plants had belonged to Dr. Gillies, and had been collected in Orkney by himself or Mr. Duguid. The collection is accordingly quoted as "Gillies herb."

Mr. Joe Goodlad. "Goodlad hb."

59. A local collection of South Lancashire plants, collected chiefly in or near Prestwich in that vice-county, and sent to the

Botanical Society of London. Some few of the plants were likely gathered at some considerable distance from Prestwich, *ex. gr.* Vaccinium Vitis Idæa.

Rev. George Gordon.

95. 'Collectanea for a Flora of Moray,' checked so as to render it "a list of species for the county of Elgin generally;—including with Elgin that part of Inverness which lies imbedded in or divides Elgin in twain." Dr. Gordon made use of a copy of his own printed 'Collectanea,' as more convenient to himself, and also a work very familiar to myself, through very frequent use of it since 1839, the year of its date.

109. Alphabetical Catalogue of British Plants, checked for the county of Ross. Dated 1834. This catalogue has been quoted under the vice-county of East Ross, on assumption that all the plants were seen to the eastward of the watershed, which cuts off the vice-county of West Ross. Without the valued assistance of Dr. Gordon, with his friend and fellow-worker in natural science Mr. W. A. Stables, my own writings would have been sadly deficient in the botany of Moray and Ross.

Mr. James Grant.

109. London Catalogue, edition seventh, checked for plants seen in Caithness.

Mr. Peter Gray.

72. London Catalogue, edition second, checked for plants seen within three miles of the town of Dumfries, on that county side; also, marks for other species seen in the county of Dumfries beyond the three-mile radius. N.B. The authority for these latter plants is entered occasionally (not invariably) as "Gray cat. co." or as "Gray ms."

73. London Catalogue, edition second, checked for plants within three miles of the town of Dumfries, on the Kirkcudbright side; also, marks for other species seen beyond the three-mile radius. N.B. The like remark may be repeated here.

Mr. Symington Grieve.

102. Catalogue of plants observed in the island of Colonsay. 1879.

Miss Wilhelmina L. Hall.

14. Manuscript catalogue of the rarer plants seen in the neighbourhood of Eastbourne, either by herself or her friend Miss Woodhouse. This catalogue was not to hand in time for citation on the earlier sheets of Part First; and being at first entered on the proofs, it was misprinted "Hill cat." in two or three instances, instead of "Hall cat."

Mr. Roger Hennedy. Late Prof. Bot. Anders. Univ.

76. London Catalogue, edition sixth, checked for plants seen in the county of Renfrew. Date of 1872.

77. London Catalogue, edition sixth, checked for plants seen in the county of Lanark. Date of 1872.

100. London Catalogue, edition sixth, checked for plants seen in the county of Bute or Clyde Isles;—including Arran, Bute, Cumbraes. Date of 1872.

N.B. These three counties constitute the south-eastern portion of the area included under the *Clydesdale Flora*, an excellent Local Flora in a small compass and unpretending form, by Professor Hennedy.

Mr. William Hillhouse.

30. Lithographed list of plants observed in Bedfordshire. A second more extended list afterwards published.

Rev. W. M. Hind.

21. London Catalogue, edition fifth, checked for plants seen within four and a half miles of Harrow, all in Middlesex. Mr. Hind afterwards printed a somewhat more ample list of Harrow plants. And this again was extended in the *Flora of Harrow*, by J. C. Melvill. But in accordance with the rule laid down,

the original ms. catalogue is cited in the present work as "Hind cat." The county of Middlesex is so small in its area, and so humanly altered in its surface, that the temptation was considerable to leave it out of notice in this work; and now I regret that it was not originally combined with Hertford, instead of being separately numbered;—as Rutland with Leicester, as Kinross with Fife, as Nairn with Easterness, etc.

Mr. John Hogg.

62, 65, 66. Alphabetical Catalogue, checked for plants observed on either side of the Tees, from the coast upwards to Blackwell. As this old catalogue does not distinguish the plants by counties, it has not been quoted in the present work, although used in former works by the same writer. Mr. Baker's admirable *Botany of North Yorkshire* and (jointly with Dr. Tate) the *New Flora of Northumberland and Durham* were really made the basis for vice-counties 62 64 65 66 67 68; although good personal authorities have been cited from other sources. This basis was the more convenient because the New Flora recognizes my triple division of the two Tyne counties and arranges its localities in accordance.

Dr. George Johnston.

68, 81. London Catalogue, edition second, checked for plants found within three miles of Berwick-on-Tweed; the space being nearly all of it "in England" although partly "north of the Tweed." As the catalogue will thus relate to portions, not only of two counties, but even of two primary provinces, Tyne and East Lowlands, it becomes non-available in the present work. Actually, however, Dr. Johnston's very pleasing work, *The Natural History of the Eastern Borders*, is the chief (unquoted) authority for the county of Berwick, and for much in adjacent counties also.

Mr. E. H. Jones, of Cwm Ithy.

43. London catalogue, edition seventh, checked for plants observed in Radnorshire.

Mr. Thomas Kirk.

38. London Catalogue, edition fifth, checked for plants seen in the county of Warwick. Mr. Kirk's emigration to New Zealand was a loss to our home botany: but in his new country he has proved an active promoter of botany and kindred sciences.

M. A. Lawson. Late Prof. Bot. Oxford.

104. Manuscript list of plants seen by himself and the Rev. H. E. Fox in the Isle of Skye, the chief isle of the vice-county of North Ebudes.

Dr. F. Arnold Lees.

63. London Catalogue, edition sixth, checked for plants seen in the vice-county of South-west York. Date of 1873.

64. London Catalogue, edition sixth, checked for plants seen in the vice-county of Mid-west York. Date of 1873.

(A large proportion of the additions contained in this second edition are taken from the reports of the Botanical Record Club, which Dr. Lees has edited).

Rev. William Allport Leighton.

40. London Catalogue, edition second, checked for plants seen within four miles of Shrewsbury, in the county of Salop;—supplemented by other species seen in Shropshire, beyond the four-mile radius from the county town. Mr. Leighton's able *Flora of Shropshire* records numerous localities, and ought to be in the hands of every botanist visiting the county.

Mr. F. A. Malleson.

13, 14. Manuscript Flora of Sussex. N.B. The arrangement

being alphabetical, and no distinction being made between East and West Sussex, this has been little used.

Mr. George Maw.

4. London Catalogue, edition second, checked for plants seen within four miles of Bideford, in the vice-county of North Devon; with others seen about Barnstaple Creek and Braunton, beyond the four-mile radius.

Mr. J. Cosmo Melvill.

47. Manuscript list of plants observed on the Breidden Hills, Montgomeryshire, in 1877.

Mr. J. Montgomery.

76. Manuscript list of plants seen in the county of Renfrew, with notes of localities in that county and borders of Ayrshire. This catalogue was obtained for me over thirty years ago, by the kind instrumentality of Dr. Hooker. It was quoted in the New Guide; but for the purposes of this present work it has been almost entirely superseded by the list of Renfrewshire plants furnished by Professer Hennedy.

Mr. O. A. Moore.

61—5. Mr. Moore had drawn up a new *Flora of Yorkshire*, and kindly allowed me to inspect his manuscript; from which I took some few notes on the additions there made to the list of species in the Flora published by Baines. But then hoping to see it shortly in a printed form, it was too little noted from.

Mr. Alexander G. More.

10. London Catalogue, edition fifth, checked for plants seen in the Isle of Wight. Mr. More has subsequently printed (1871) a *Supplement* to the *Flora Vectensis* by Dr. Bromfield;—an useful critical supervision, adding plants and localities, and correcting some of Dr. Bromfield's errors. Mr. More had also

printed "A Catalogue of the Flowering Plants and Ferns growing wild in the Isle of Wight," intended "to serve as an Index to the Herbarium of Dr. Bromfield." It is more than this; being in eleven pages a much *truer* list of Vectian plants, than could be got from Bromfield's ponderous book of eight hundred pages of close print, as the Flora of one little Isle! In Bromfield's verbose work, it took over fifty lines of close print—say, 500 words—to record the occurrence of the common red Poppy in the Isle of Wight. In More's Catalogue, that curious fact is sufficiently announced by two words.

Mr. James Motley.

44. A Manuscript Flora of some portion of the county of Carmarthen, chiefly (I believe) the neighbourhood of Llanelly. This Flora was lent to me, and shortly claimed back, before Mr. Motley's departure from Britain for Borneo. Notes had been hurriedly taken from it, which are now quoted as "Motley cat." without the chance of again referring to the Flora itself.

Rev. W. W. Newbould.

31. London Catalogue, edition third, checked for plants seen in the county of Huntingdon; the parts examined being chiefly Somersham Soke, Holme Fen, and the neighbourhood of Gamlingay.

30. Mr. Newbould also kindly checked the Bedfordshire Monocotyledons in a London Catalogue, for use in the Second Part of this work. His list, as not at all professing completeness, is quoted along with various manuscript notes, in the form of "Newbould ms."

In various modes I have been assisted by Mr. Newbould, while writing this and former works. Indeed, that gentleman's ever readiness to take trouble on behalf of other botanists, is too well known to need eulogy from my pen; though it may be allowable here to record an expression of my own grateful sense

of his indefatigable and disinterested zeal in the promotion of botanical knowledge.

Mr. D. Nicolson.

109. London Catalogue, edition seventh, checked for plants seen in Caithness, with additions on faith of specimens in the herbarium of the late Robert Dick.

Rev. A. M. Norman.

66. London Catalogue, edition fifth, checked for plants seen in the county of Durham. Mr. Norman has ceased his botanical correspondence with me. Perhaps, in taking earnestly to other departments of Natural History, the local details of Botany may have ceased to interest.

Mr. W. L. Notcutt.

11. "Catalogue of Plants observed in the neighbourhood of Fareham." (Phytologist, vol. 2, part 1, pages 201—216).

28. London Catalogue, edition second, checked for plants seen within five miles of Fakenham, in the vice-county of West Norfolk.

32. "Catalogue of Plants observed in the neigbbourhood of Daventry, Northamptonshire." (Phytologist, vol. 1, pages 500—508).

N.B. It will be seen that Mr. Notcutt's two printed Catalogues have been quoted, as well as the manuscript one in form of a London Catalogue specially checked for the neighbourhood of Fakenham. Correspondence with Mr. Notcutt induced me to accept and adopt the two published Local Catalogues in lieu of specially checked copies of a more general one.

Mr. Francis P. Pascoe.

2. London Catalogue, edition second, checked for plants seen within five miles of Trewhiddle, situate near the western boundary of the vice-county of East Cornwall. Further, dis-

tinctive marks were affixed to the names of other plants seen or reported in Cornwall, beyond the five-mile radius. (The Catalogue checked for plants of East Cornwall, at a later date, by Mr. Archer Briggs, is cited by preference, not only on account of its later date but also because it takes in the more truly eastern side of the county).

Mr. J. C. Mansel-Pleydell.

9. London Catalogue, edition sixth, checked for plants seen in the county of Dorset. This will be an almost complete county list, Mr. Mansel-Pleydell having been actively engaged for some years in collecting together the *data* for a *Flora of Dorset*, now published, and in personally investigating the botany of the county; one interesting result from which was a restoration of *Scirpus parvulus* to the flora of England.

Mr. Charles Prentice.

33. London Catalogue, edition second, checked for plants seen within three miles of Cheltenham, in the vice-county of East Gloucester.

Rev. T. A. Preston.

7. London Catalogue, edition sixth, checked to shew some species additional to those marked by Mr. Flower for the vice-county of North Wilts. Dated 1873. These additions are quoted as "Preston ms." A *Flora of Marlborough*, edited by Mr. Preston for the Students of the College, is published in the "Reports of the Marlborough College Natural History Society." It unfortunately chances that the line of division between North and South Wilts, adopted in my own works, crosses the area taken under notice in the *Flora*, thus rendering it ill available for use in relation to either vice-county taken separately.

Rev. W. H. Purchas.

30. London Catalogue, edition first, checked for plants seen

in the vicinity of Ross, in the county of Hereford. With additions by Mr. A. F. Wilmot; under which, in the preceding pages, the quoted authority for this county is "Wilmott"; the double "tt" being apparently an incorrect mode of spelling the name. (A good "Summary of the Geographical Distribution of Plants in Herefordshire," drawn up by Mr. Purchas, is printed in the "Transactions of the Woolhope Naturalists' Field Club," with the more recent date of 1866. Many of the additional species given in this Flora had been entered in my own notes from the letters of Mr. Purchas, and they are indicated on preceding pages under the cited authority of "Purchas ms.")

25, 46. By the kindness of Mr. Purchas, also, I have short lists of plants observed by him in East Suffolk, or near Aberystwith, Cardiganshire. These are quoted irregularly as "ms." or as "cat."

Mr. W. W. Reeves.

(48, 49. Catalogues sent for the second edition of species noted in the counties of Merioneth and Carnarvon).

Mr. J. Frederic Robinson.

49. London Catalogue, edition sixth, checked for plants seen in the county of Carnarvon. Date of 1873.

51. London Catalogue, edition sixth, checked for plants seen in the county of Flint. Date of 1873.

52. London Catalogue, edition sixth, checked for plants seen in the county of Anglesea. Date of 1873.

N.B. These three catalogues came to hand too late in 1873 for citation under the orders *Ranunculaceæ—Umbelliferæ*. They are quoted from *Sambucus* onward; and they often supply a personal authority for one or more of the counties named, which might otherwise have stood in blank only, as quoted from books, or have been altogether left out of the county lists under some species. A fairly complete list of Anglesea plants

was published in *Welch Botanology* by Davies; but no general list of plants for Flint or Carnarvon was in my own hands before 1873, although I had myself visited both counties, and Anglesea also, in years long ago; then neglecting to make full lists of the plants observed there.

Mr. Freeman C. S. Roper.

14. "The Natural History of Eastbourne and its vicinity,"—a capital model for similar local Epitomes,—includes a list of plants for a portion of East Sussex. This being a printed pamphlet and joint production, it would not come under the prescribed rule for citing *personal* authorities. But Mr. Roper very kindly rendered it appropriate by attaching a distinctive mark to the comparatively few species of flowering plants which he had *not* himself seen within the area. Mr. Roper has subsequently printed further additions to this work.

Mrs. Russell. (Miss Anna Worsley.)

6, 34. Catalogue of plants seen near Bristol, quoted in the New Guide as "Worsley cat." As this catalogue was not specially adapted to either vice-county, and is now of old date, antecedent to the New Guide of 1835, it gives place to the more recent catalogue checked for the Bristol circuit by Mr. Thwaites, as presently to be explained. My botanical correspondence with Mrs. Russell, and interchanges of specimens, have been carried on through a long series of years, and on my side with ever increasing satisfaction. Of course the "Worsley cat." of the New Guide (under Gloucester) and the "Worsley cat." of this present work (under Mid Perth) are quite distinct in place and person; except that the two Misses Worsley, senior and junior, are in the related position of Aunt and Niece, and most suitably so from the botanical point of view. I am gratified in being enabled to repeat the old form of "Worsley cat." in this present volume, and in a related sense.

Rev. Gerard Edwards Smith.

15. Alphabetical Catalogue checked for plants seen in South-east Kent. Date about 1834. The alphabetical arrangement of this printed catalogue, with some crowding of manuscript initials on it (used for indicating also other parts of Kent and Sussex) rendered it rather confusing for consultation; and I was informed by Mr. Borrer that the initials relating to Sussex had been misunderstood in some few instances. In this work, Mr. Smith's Catalogue is cited almost exclusively for the vice-county of East Kent, under which his sectional division of "South Kent" appeared to come.

Dr. A. Southby. (Formerly Dr. Gapper.)

5, 6 and 7, 8. Alphabetical Catalogues checked for plants seen in Somerset and in Wilts. The former was quoted as "Gapper cat." in the New Guide. The latter is of more recent date, and scanty in its number of checked names. They have been superseded by the newer catalogues, suitable for quotation specially under the four several vice-counties. Still, the Somerset list proved of much service to me in years ago, and it ought to be included in the present enumeration, although very little used in compiling this work.

Mr. William Alexander Stables.

96. 'Collectanea for a Flora of Moray,' checked in order to render it a list of species seen by Mr. Stables in the little county of Nairn, included in that large portion of Eastern Inverness which constitutes the vice-county of Easterness; an abbreviated compound name, to reduce it to a more convenient length for lists in column, etc. To Mr. Stables I am further indebted for numerous specimens, as well as notes about the plants and their places, as observed in his far northerly part of Britain.

Mr. Daniel Stock.

25, 27. Manuscript "List of Plants growing about Bungay

in the county of Suffolk. May, 1834." Such is the title of a small book written out for me by Mr. Stock, and quoted in the New Guide. At a later date, Mr. Stock presented a similar manuscript list to the Botanical Society of London. In that list of later date several of the plants had localities indicated for them; and some of the stations being in Norfolk only, I noted my earlier list to correspond, by attaching the letter N to the names of plants for which Norfolk localities only were given in the second and more enlarged Manuscript. The apparent want of consistency, between the title given to the earlier list and the fact of Norfolk localities only being given for some of the same plants in the list of later date, unavoidably casts some doubt upon the former as a list of plants strictly for a part of the vice-county of East Suffolk. I have, however, assumed all the plants to be really found in that vice-county, except as to those for which Norfolk localities only are mentioned in the second list. (I had that second list knocked down to me, in a lot with other books not cared for, at an auction sale of the property of the dissolved Botanical Society of London,—unaware that I had been bidding for it against its Author. Mr. Stock evinced some unwillingness to let it remain in my possession, and an arrangement was made accordingly for him to take it in my stead. Thus, for the purposes of the present work, I fall back on the earlier list of 1834, as altered by myself to correspond with the later list of 1851. And "Stock cat." thus appears occasionally in connexion with East Norfolk, as well as with East Suffolk).

Mr. John Storey.

66, 67. London Catalogue, edition second, checked for plants seen within five miles of Newcastle, partly in Durham, partly in Northumberland, as indicated by the corresponding initials. This catalogue is cited occasionally; but the gift of numerous specimens by Mr. Storey, together with other assistance, usually rendered the citation of the catalogue itself unnecessary,

Several of the specimens sent by Mr. Storey were collected by Mr. Makepeace, whose name is usually cited.

Dr. J. T. Boswell-Syme.

85. London Catalogue, edition sixth, checked for plants seen within half-a-dozen miles of Balmuto House, in the county of Fife, in the years 1868–9. "Limits:—Aberdour to Kirkcaldy, Kirkcaldy to Auchtertool, Auchtertool to Loch Gelly, Loch Gelly to Cowdenbeath, Cowdenbeath to Otterston by Cullalo, Otterston to Aberdour." Some additional species, mentioned by letter of later date, have been vouched on preceding pages by "Syme ms." or "Syme sp."

87. London Catalogue, edition third, checked for plants seen in Ochillshire. Date of 1851. "Under Ochillshire are included. *first*, Clackmannanshire, *second*, the detached part of Stirlingshire, in which Aloa lies, *third*, the parts of Perthshire between Clackmannanshire and Kinross-shire, *fourth*, Kinross-shire, and *fifth*, the part of Perthshire between Clackmannanshire and Fifeshire, which lies on the Firth of Forth, and in which the maritime plants grow, mostly about the mud banks at Kincardine." As thus explained the area will include some portion of the county of Fife, no. 85, as it is taken in the map drawn for this work; although mostly constituting a portion of West Perth, no. 87; and the catalogue is quoted only under the latter no.

91. London Catalogue, edition third, checked for the county of Kincardine. N.B. Several plants in this catalogue stand there on the authority of Miss Boswell, Aunt of Dr. Boswell-Syme; and under those plants the county is certified by that lady, as "Miss Boswell ms." or in some form more abbreviated.

111. To Dr. Syme I am further under obligation for a list of plants observed by himself in his visits to Orkney, which is occasionally quoted as "Syme cat." The name of "Miss Boswell" again comes in occasionally for Orkney.

Dr. George R. Tate, R.A.

68. London Catalogue edition second, checked for plants seen within five miles of Alnwick, in the vice-county of Cheviotland. Dr. Tate having had the opportunity to include the results of his own researches, in the New Flora of Northumberland and Durham, in which the vice-county of Cheviotland is specially distinguished from the other two divisions, it was deemed advisable in this present work to give priority to the Catalogue by Mr. Embleton; falling back on that of Dr. Tate as a supplementary list.

Mr. John Tatham.

64. London Catalogne, edition second, checked for plants seen within three miles of Settle, in the vice-county of Mid-west York. Some few additional plants, the rarer hill plants, are seen only beyond the distance of four miles. The citation of "Tatham cat." applies to either set of plants, but Mr. Tatham had sent specimens of so many of the rarer plants, either direct to myself or through the Botanical Society of London, that "sp." will often supersede "cat." in connexion with the name of "Tatham." I never had the good fortune to meet Mr. Tatham personally, although a correspondence through many years always gave the wish for a closer intimacy.

Dr. G. H. K. Thwaites.

6, 34. London Catalogue, edition first, checked for plants seen within ten miles of Bristol; the marks varied so as to shew those seen in both vice-counties, North Somerset and West Gloucester, and those found in either one only. This Catalogue was obtained for me by the kind instrumentality of Dr. J. D. Hooker. Being made on the first edition of the London Catalogue, dated in 1844, of course it is deficient in the names of many recent segregates.

Mr. Frederick Townsend.

11, 12. London Catalogue, edition sixth, checked for Hants south and north. (His 'Flora of Hampshire,' in which these lists are revised, was published too late to be used).

Mr. E. G. Varenne.

19. London Catalogue, edition second, checked for plants seen within four miles of Kelvedon. Mr. Varenne more recently has supplied me with a Manuscript List of additional plants and their localities, having reference both to North and South Essex, always carefully distinguished. The authority for these latter is given as "Varenne ms." in contradistinction to "Varenne cat." The catalogue and list from Mr. Varenne have been valuable aids to me. There is a good Flora of Essex by Mr. G. S. Gibson; but my own division into *South* and *North* being ignored in that work, and the Author's divisions being crossed by my boundary line, the Flora was here of small use in placing the plants under their two vice-counties. It has likewise the highly objectionable peculiarity of citing fifty personal authorities by *initials*, although surnames are scarcely longer, far more clear to eye and understanding, and less liable to misprint. Imagine so unwise a plan to have been adopted in "Topographical Botany." How lucid, distinctive, and well adapted for ready recollection, would have been the four or five hundred set of initials, printed in pairs and trios, instead of names! Of course, while obliged to consult the Flora of Essex and other Floras on like plan (Cambridge, Hertford, &c.), my course was to regard them as promiscuous compilations unvouched, without attempting to keep in recollection all the different sets of initials used in those several Floras, so bewildering when brought under notice together.

Mr. James Ward.

65. London Catalogue, edition second, checked for plants seen within three miles of Richmond, in the vice county of

North-west York. N.B. In some of my earlier writings an alphabetical list was used, also checked by Mr. Ward, but including a much wider area than the catalogue cited in the present work.

Miss Elizabeth Warren.

1, 2. Manuscript List of Cornish Plants in the *Hortus Siccus* of the Royal Horticultural Society of Cornwall. This List was returned to Miss Warren by her own desire, after I had checked off the names of the plants, in the folio edition of the London Catalogue. And as the list of names related to the whole county, not specially to either vice-county, it was found practically almost useless for the objects of the present work. There are names entered in the list, which are those of plants very unlikely to be found in the county, such as *Primula farinosa* and *Polygonum maritimum;* so that either misnomers or mis-locations would appear to be found in the collection.

Hon. J. B. Leicester Warren.

13, 14. London Catalogue, edition sixth, checked to shew some of the less common (chiefly coast) plants seen in West or East Sussex, in the autumn of 1873. This Catalogue became available only in Part Second of the present work, namely, for the monocotyledonous orders; and being accompanied by manuscript notes in letters and also labelled specimens, these "ms." and "sp." supersede the "cat." under various plants. Mr. Borrer's Catalogue (inland one) had priority under 13, his own vice-county.

58. Manuscript Flora of Cheshire, lent to me by Mr. Warren in 1867. While this carefully drawn up Flora was in my own holding, I checked off in a London Catalogue the names of all the species which appeared to be entered on the personal authority of Mr. Warren himself. This is the list referred to as "Warren cat."

58. London Catalogue, edition sixth, checked so as to shew

distinctively all the species actually seen by Mr. Warren in the county of Chester up to 1873. This Catalogue came to hand after the larger portion of Part First of the present work had been printed off. In the later printed pages, and taken along with various oral and manuscript notes, it is referred to as "Warren ms."

Mr. Frederick M. Webb.

59. London Catalogue, edition sixth, checked for plants seen in the vice-county of South Lancaster. In the absence of this Catalogue, and that of Mr. Warren for the conterminous county of Chester, I should have found myself botanically much at a loss, notwithstanding a familiarity with portions of each county in my early years. The environs of the two great towns, Liverpool and Manchester, are in both counties; and their Local Floras fail to state their botanical stations in a manner easily to be understood in a comital sense by a non-resident. Mr. Webb edited a *Flora of Liverpool*, in the "Liverpool Naturalists' Journal," carried on to *Verbenaceæ*, in 1868; and I understand that it has been again continued by somebody else, after a temporary cessation.

Dr. F. Buchanan White.

87, 88. 89. Dr. White has kindly indicated for us in manuscript, in connection with his 'Perthshire Flora,' published in the 'Scottish Naturalist,' the vice-counties in which the species are ascertained to grow.

Miss Alice Worsley.

88. London Catalogue, edition sixth, checked for plants seen by Miss Worsley and Mademoiselle Cerf, in the neighbourhood of St. Fillans, in the vice-county of Mid Perth, in the summer of 1872. Miss Worsley kindly checked this catalogue to meet my special request for it, made on hearing that she was a temporary resident in a vice-county for which there was no

published Flora; nor had I any unpublished lists of its plants from other botanists, except indeed my own notes made chiefly about Killin. (See further under Mrs. Russell, page 555.)

Various Correspondents.

Except as otherwise explained, the before mentioned Catalogues are understood to be full lists of the plants, common or rare alike included. Numerous other manuscript lists of the rarer plants in special areas, and with or without detailed localities, have been kindly sent by botanical correspondents. These have been quoted as "ms." in connexion with the names of their contributors; that abbreviation being understood to signify a locality, more or less precisely stated, but at any rate presumed to be somewhere within the county or vice-county to which it is assigned.

Donors to Herbarium.

The abbreviation "sp." will carry nearly the same local significance. But it is to be recollected that duplicate specimens often pass from hand to hand; and thus not seldom they may become connected with the names of Donors who were not the actual collectors of the specimens. A considerable portion of those referred to under the abbreviation "sp." reached the Compiler's herbarium through the instrumentality of the Exchange Societies. Of course, he cannot warrant the accuracy of their labels in respect of comital habitats. The "sp." means, however, that the Compiler has himself seen a specimen which was sent or labelled as having been gathered in the county named.

Remarks on the Catalogues.

Some of the preceding Catalogues have been described as Manuscript Lists. That is perhaps the best form for rendering them accurate as to names and plants, but with increased

likelihood of inadvertently omitting some. While writing out a long list of plant-names, the chance is not small that one or two may be left out, which ought to have been included. But such an oversight introduces no other error into the list, beyond the simple omission of some plant which might properly have been given. Indeed, it is not an easy matter to make sure of any local list being so absolutely complete that its negative evidence can be quite relied upon. In some of our printed Local Floras we find one or more species added like a tail-piece at the end, either because first ascertained in the county or other area while the Flora was under press, or because accidentally left out of the manuscript as prepared for the printing office.

The greater number of the cited Catalogues have been formed in a different manner, one by which the chance of bringing in a wrong plant is increased, while the chance of leaving out a right one may be rather lessened. A printed list or general catalogue of British Plants has been converted into a local catalogue; so managed by attaching some sign or mark to the names of all those plants which have been observed by the marker within some definite area. This mode is less likely to induce errors of omission, perhaps, because the printed names are there to serve as reminders. But, unless deliberate care be taken in attaching the marks to the plant-names, there is the risk of attaching some of them inadvertently to the wrong names; the hand and the thought not acting synchronally. Such printed lists ought not only to be marked deliberately, but to be also carefully read over after being marked. Repeatedly, before and while citing the Catalogues, it was found necessary to re-apply to the marker, to ascertain whether he had really intended to affix a mark to some particular plant suspected to have been wrongly marked by him.

After some experience had been acquired by noting the very different manner in which local botanists looked at plants,—more especially as to the likelihood of certain species being

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introduced or truly indigenous in the area under observation, and the remarkable confusion often made between eye-sight and hear-say evidence,—a series of four marks was adopted for the sake of uniformity among the lists, or such an approximation towards uniformity as it was found possible to obtain. The four marks were these :—

– Native in the area, seen there by the Marker himself.

† Possibly introduced there. *Ditto.*

* Probably (or Certainly) introduced. *Ditto.*

o Reported on or by some other authority.

This seems clear and simple enough. It has not been found so in practice. There were Catalogues in which *Sempervivum tectorum* and *Elodea canadensis*, were at first marked as true natives. The ordinary corn-field weeds, the Colonists of the Cybele Britannica, are marked as natives usually, but occasionally as introductions, in neighbouring counties where they really occur under almost precisely similar conditions. Planted trees are marked variously, either as natives or as possibly or probably introduced. Even the wide difference of meaning between "–" and "o" has not always been faithfully adhered to. Still, be it observed, such incongruities may be found in the printed Local Floras, as well as in the Catalogues cited in this present work. And on the whole, the Catalogues here under explanation, and cited on preceding pages, after having been critically considered, are probably quite equal in trustworthiness to the printed Floras. Indeed, if a like number of each should be fairly compared together, it would assuredly be found that the printed Floras include more errors; that they have given currency and record to far more errors in the names and localities of plants, than the Catalogues cited in this present work will do.

In their several dates, they may be described as ranging from 1832 to 1880 inclusive. It is important to bear in mind this lengthened range of date, when looking to their evidence as shewing the occurrence of particular plants within their

respective counties or other areas. During the two score years many changes have been made in the species accepted and described in our technical books.. Some newly detected plants have been brought into our descriptive Floras; and those not also local rarities; for instance, *Sagina ciliata* and *Ranunculus Lenormandi*. A much greater number, formerly deemed varieties and little noticed as such, have been allowed to gain specific rank; for instance, *Filago apiculata* and *spathulata*.

The total number of plants which would come under these categories is by no means scanty. As they have been gradually increasing in their numbers during the two score years referred to, it follows that the earlier the date of a catalogue, the less likely on the whole to shew some of these plants, even although found in the area to which it related. It is partly on this account that the form of the cited Catalogue has been mentioned, and the particular edition of the London Catalogue that was converted into a Local List. Most of them being undated otherwise, and the exact years of marking them not having been kept in recollection, the form or the edition is thus substituted as an approximate date instead.

The earliest printed lists were alphabetically arranged copies of the names of plants, taken from Hooker's British Flora. The first Catalogue was made out from the first edition of the British Flora. A second Catalogue, still alphabetical, was taken from the second edition of the same Flora. Then came a Catalogue, by Mr. George Francis, arranged on the Linnean System of classification, and taken from the third edition of the same British Flora, which bears date in 1835. Dr. Godfrey Howitt's Catalogue of Derbyshire Plants is made out by marking a copy of this Linnean Catalogue.

The Botanical Society of Edinburgh has printed several Catalogues, or editions in different forms of arrangement. Up to 1841, or later, it adhered to the alphabetical form. But at some after date a change was made to a sort of mongrel compromise between alphabetical and systematic classification, the

exact character of which I do not now recollect. More recently it has become strictly systematic.

The Botanical Society of London for a time attempted to cary on their exchanges and distribution of specimens by aid of the Edinburgh Catalogue. But its alphabetical arrangement and changed nomenclature being found exceedingly inconvenient for such use of it, I was requested to try whether some other form of Catalogue could not be adopted instead, more convenient in its arrangement for the purpose required. Not unwillingly I undertook this little task; looking forward to the service which such a Catalogue would be calculated to render to myself also, as a ready mode of obtaining Local Lists of plants in a systematic instead of an alphabetical form.

It will have been seen by those users of this book, who have looked over the list of Catalogues explained, that the greater number of them have been made out by marking copies of the 'London Catalogue of British Plants'; also, that the edition used has always been mentioned in the explanation. As before remarked, this gives their successive and approximate dates and it so far suggests a clue to the states or stages of our descriptive botany at the time the local lists were made out. During the thirty-six years nearly, from the first alphabetical list to the sixth edition of the London Catalogue in 1867, there has been a continued tendency to subdivide old Linnean species into more numerous modern segregates, and the tendency has been increasingly apparent since (say) 1842. The effect of this appears of course in the catalogues of names; the later the edition of a catalogue used in marking off a local list of plants, the greater the chance for a segregate name to be marked in it and either along with or in lieu of a more aggregate name. The several editions of the London Catalogue are dated thus:—

1844	edition first.	1857	edition fifth.
1848	,, second.	1867	,, sixth.
1850	,, third.	1874	,, seventh.
1853	,, fourth.		

(In the seventh edition of the London Catalogue, which was published after the first edition of Topographical Botany, the numbers prefixed to the species were changed, and were raised from 1428 to 1665.)

'Topographical Botany' is adapted to the Sixth Edition of the London Catalogue, as before explained, both in nomenclature and numeration with some few discrepancies; and the cited lists are made on the same or earlier editions. But while alluding to the nos. connected with the specific names—an old custom of botanical books revived there for its special usefulness—I wish to make record of the advantages derived by myself from those nos. Being used throughout my own books, they give a very ready reference from one book to another. I can find a species more readily and rapidly through the nos. than through order and genus. This is the case, whether it is wished to turn from one book to another, from books to herbarium, or from herbarium to books. Indeed, it may be literal truth to say, that 'Topographical Botany' would never have been written, never got to by me, if the specific names of the London Catalogue had been unnumbered.

If rightly used, they vastly facilitate exchanges and distribution of specimens. *Ex. gr.* The one-time active Secretary of the Botanical Society of London, the late Mr. George Dennes, really knew but little of botany; he never was able to name a plant from book description. Yet, through aid of the nos. to the specific names in the London Catalogue, he found it sufficiently easy to look out, or assist in looking out, the desiderata of members. Using the nos. he and I together have looked out upwards of a score of desiderata lists on a Christmas-day morning, and some of them not at all short lists. At its best days the London Society mustered about two hundred members; and the main annual distributions were usually got through in December or January, while done by the Secretary (much tied by his professional duties) and myself. I wish particularly to record that circumstance, while writing of the uses of the

London Catalogue, because Dr. Boswell Syme assures me, in 1873, that he has never found the nos. to the names "of the least use." My own experience of them was, and still is, widely different indeed. I dislike much to receive a manuscript list of plants or localities, in which the plant-names are not written in the same sequence, and with the same nos. affixed, as seen in the London Catalogue. But a list of mere nos. *without names* has usually got thrown into the fire forthwith.

GENERAL LIST OF CORRESPONDENTS.

WITH OTHER

PERSONAL AUTHORITIES CITED.

Mr. Abraham, cor. 3.
Miss Adams, soc. 3 11.
Rev. Frederick Addison, soc. 70.
Mr. Allen, through Rev. Churchill Babington, 32.
Dr. R. C. Alexander, cor. 6 7 26. (Dr. A. Prior.)
Mr. A. Anderson, through Mr. Gardiner, 89.
John Anderson, cor. 30 32 48.
Mr. R. J. Andrews, cor. 20.
Rev. J. H. Arnold, cor. 13.
Prof. G. A. Walker-Arnott, cor. 75 83 85 89 99 100.
Dr. Ascherson, of Berlin, cor. 52. *Zostera nana.*
Mr. F. D. P. Astley, through Rev. Ch. Babington, 57 58.
E. J. Atken, soc. 63 100. (? correct name.)
Mrs. Atkens, soc. 13 16 98.
Mr. E. C. Atkinson, through Mr. Storey, 68.
Miss M. M. Atwood, cor. 6 41 43 45 46 49 51.
Dr. P. B. Ayres, soc. 23.

Rev. Henry Baber, soc. 29.
Prof. C. C. Babington, cat. 1 3 4 5 10 11 17 26 28 29 31 34 36 39 40 41 45 46 49 50 52.
Rev. Prof. Churchill Babington, cor. 32 37 39 55 57 59 64 95 97 98 99 103 104 105.
Mr. James Backhouse, cor. 64 65 69 90 92.

Mr. Francis E. Bacon, cor. 51.
James Bagnall, cor. 37 38 39.
Charles Bailey, cor. 1 48 53 70.
Henry Baines, through Mr. Leyland, 64.
J. G. Baker, cat. 12 13 17 62 64 65 66 67 70.
Hugh M. Balfour, cor. 81 85 88 89 90 92.
Prof. Isaac B. Balfour, cat. 83 to 86.
John Hutton Balfour, cat. 69 73 74 75 77 82 83 84 85 88 101 102.
Mr. John Ball, cor. 34 41 49 52 69 88.
J. Banker, soc. 2 3.
Frederick Barham, soc. 17 21 27 63.
Miss A. M. Barnard, cor. 20 27 41.
Dr. Martin Barry, cor. 94.
Mr. John Barton, soc. 29. *Silene italica.*
W. Bean, Junr., soc. 58 59 62.
Miss Beck, cor. 58. *Gentiana Pneumonanthe.*
Mr. W. H. Beeby, cor. 1. *Juncus pygmæus*, etc.
Alfred Beesley, soc. 15. *Sinapis tenuifolia.*
Thomas Beesley, cat. 15 23.
Miss M. Beevor, soc. 69 70.
A. Bell, cat. 7 8 10 12 22 25 26 27 28 36.
Bell, through Mr. Storey, 67.
Rev. T. B. Bell, soc. 40 83 100.
Mr. William Bennett, cor. 17. *Lathyrus hirsutus.*
A. W. Bennett, soc. 1. *Arenaria verna.*
Arthur Bennett, 17. cor. 26 28 29; (and many lists supplied for the new edition; also revision of Potamogeton.)
Thomas Benson, through Prof. Oliver, 69.
Thomas Bentall, soc. 19.
Rev. M. J. Berkeley, cor. 15 31 32 55 57.
Mr. Spencer H. Bickham, soc. 57 58.
W. D. Biden, cor. 17 64.
Dr. Henry Bidwell, soc. 23 39 40 49 50 51 56.

Rev. J. F. Bigge, soc. 66 67 68.
Mr. A. O. Black, through ...? 88.
James Bladon, soc. 35.
R. Bligh, soc. 11. *Juncus obtusiflorus.*
Rev. E. N. Bloomfield, cat. 14 25 26. Notes, etc.
Mr. T. B. Blow, cat. 20.
Rev. Andrew Bloxam, cat. 27 38 53 55 57 69.
Mr. Thomas Bodenham, soc. 40.
T. Wemyss Bogg, cat. 54.
William Borrer, cat. 3 7 9 13 14 15 26 70 98 99.
Dr. Francis Bossey, soc. 16.
Mr. J. E. Bowman, cat. 40 45 47 48 49 50 51 52 57 58.
R. B. Bowman, cor. 65 66 67.
G. S. Brady, through Mr. Baker, 70.
William Brand, cor. 82 83 85 87 89 90.
Rev. W. T. Bree, cat. 31 32 38.
Mr. Francis Brent, soc. 15 41 49 58.
J. A. Brewer, soc. 11 13 14 17.
J. Brichan, quoted. 94 96 106. "J. B."
T. R. Archer Briggs, cat. 2 3 4.
James Britten, cat. 22 24 32 54.
Dr. W. A. Bromfield, cor. 9 10 11 12 14 16 26 29.
Mr. H. Bromwich, soc. 38.
C. E. Broome, soc. 7 15 29.
Isaac Brown, soc. 20 30.
Robert Brown, cor. Notes. 50 51 58 59.
Dr. Robert Brown, "Campsteriensis," cat. 109.
Mr. W. H. Brown, soc. 68.
S. Buckland, soc. 15 57.
James Buckman, soc. 33 37.
Henry Bull, soc. 17.
Dr. Martin M. Bull, cor. 2 4 5.
Mr. J. W. Buller, through Mr. Parfitt, 3.
Sir J. C. F. Bunbury, cor. 25 26.
Mr. Burnet, through Mr. Storey, 103.

Miss E. Burton, soc. 9 11 58.
Dr. Stevenson Bushnan, cor. 87. *Andromeda.*
Rev. Thomas Butler, soc. 6 34 37 40 48 49 52 53.

Mr. W. H. Campbell, cor. 77 88 89 105 106 107 108.
Carey, cor. 80.
Dr. Carnegie, soc. 82 90. (*Radiola* 90, not 85.)
Rev. H. Carpenter, soc. 3. *Equisetum variegatum.*
P. P. Carpenter, through Mrs. Russell, 64.
Dr. B. Carrington, soc. 53 54 56 69 71.
Miss Carr, through Mr. Keys. *Impatiens.*
Mr. A. Carr, soc. 14 16.
Robert Castles, cor. 17 21.
Earl of Cawdor, through Mr. Stables, 96. *Linnæa.*
Mr. George Chadwick, soc. 59 60.
Gardner Chambers, soc. 70.
John Chrisp, cor. 67 68.
A. Craig Christie, soc. 86 87.
W. C. Christy, cor. 6 13 16 17 18 19 21 23 34 49 57 82.
G. C. Churchill, cor.
Thomas Clark, cor. 5 6.
Thomas Clark, junior, soc. 6 9.
Dr. H. Cleghorn, soc. 81 90.
Mr. Frederick Clowes, cor. 69.
G. A. Clowes, soc. 27.
Rev. W. H. Coleman, cat. 5 14 17 19 20 25 29 30 55.
J. C. Collins, cor. 5 6.
Mr. Charles Conway, cat. 35.
Daniel Cooper, soc. 17.
George Cooper, cor. 25 27 28 34 77.
T. H. Cooper, cor. 56.
M. H. Cowell, soc. 15.
Miss E. M. Cox, cor. 38.
Rev. H. H. Crewe, through Mr. Whittaker, 50.
Mr. Alexander Croall, cor. 90 91 92 96.

Rev. W. R. Crotch, soc. 1 5 6 13 52 69.
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James Cunnack, cat. 1.
William Curnow, soc. 1.

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Mr. Davis, through Mrs. Russell, 37.
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G. E. Dennes, cor. 16 21.
Henry Denny, cor. 63.
Dr. A. Dewar, soc. 85 87.
Mr. Robert Dick, soc. 109. *Hierochloe.*
Prof. George Dickie, cor. 92 93. D. G. 91 to 94.
Mr. William Dickenson, cor. 70.
Dr. Joseph Dickinson, soc. 40 50 58 59.
Mrs. Dickson, cat. 91.
Mr. J. Dickson, soc. 72. *Lepturus.*
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Mrs. Eastmond, cor. 4 17.

Mr. Booth Eddison, soc. 56.
Miss Mary Edmonds, cor. 4 34 70.
Mr. Thomas Edmonston, cor. 95 112.
Edward Edwards, soc. 16.
Miss Harriet Ekins, cor. 30.
Mr. John Ellis, cor. 12 17.
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W. Evans, soc. edin. 29. *Silene italica.*

Mr. Fairlamb, through Mr. Storey, 67.
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Edward Forster, cor. 16 42.
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Mr. Frampton, through Mr. Pleydell, 9.
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J. B. French, soc. 6 15 16 17 34.
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Mr. Walter Galt, cor. 75 76 77 86 100.
Mrs. Lynedoch Gardiner, cor. 17. *Calla palustris.*
Mr. William Gardiner, cor. 90 91.
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Alfred Greenwood, soc. 1 19.
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J. D. Hooker, cor. 36 75 77 86 98 99 100.
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F. J. A. Hort, cor. 6 26 29 33 34 35 48 49 66 69 70.
Dr. Godfrey Howitt, cat. 49 54 55 56 57.
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Rev. H. S. Jenner, soc. 16.

Miss E. Jones, soc. 40.
Mr. E. H. Jones, cat. 43.
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Rev. C. A. Johns, cor. 1.
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Mr. Jowett, through Dr. Howitt, 71.

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Mr. Andrew Kerr, soc. 90.
I. W. N. Keys, cor. 3.
John King, soc. 59.
Rev. W. P. Meade King, cor.
Mr. Henry Kingsley, soc. 17 21 64 70.
Richard Kippist, cor. 16 32 53.
Thomas Kirk, cat. 38 57.
A. Knight, through Mr. Thwaites, 41.

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Mr. Lawrence, soc. 21. (Initials illegible.)
Prof. George Lawson, cor. 85.
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Mr. Edwin Lees, soc. 33 37 40 41 42 47 49 52.
Dr. F. Arnold Lees, cat. 63 64.
Rev. W. A. Leighton, cat. 40.
Dr. Charles Lemann, cor. 29.
Mr. J. H. Lewis, cor. 47 48 59.
Rev. Augustin Ley, soc. 23 34 36 57 70 96 97.
Mr. Roberts Leyland, cor. 59 63.
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Mr. John Linnell, soc. 17.
Rev. William Little, cor. 83.
Mr. Linton, soc. 23.
G. N. Lloyd, cor. 72 73 82 83 85.

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Mr. S. Lucas, soc. 20.
George Luxford, soc. 17.
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William Macnab, cor. 85 108. (Macnabs confused ?)
Dr. D. C. Macreight, soc. 11 12.
Mr. Makepeace, through Mr. Storey, 67.
R. J. Mann, soc. 27.
J. Marsden, soc. 33.
William Marshall, cor. 28 29.
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George Maw, cat. 4 36 37.
J. Cosmo Mellvill, cor. Additions. 5 60 69.
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Mr. W. L. Notcutt, cor. 11 25 28 32.

Prof. Daniel Oliver, cor. 1 65 67 68 69 70 107 108.
Mr. Jonathan Ottley, cor. 70.

Sir James Paget, cor. 25 27.
Mr. W. D. Paine, soc. 65.
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William Pamplin, cor. 11 12 16 17 18.
Miss Alcie Parfett, cor. 17.
Mr. Edward Parfitt, cor. 3 5 6.
C. Eyre Parker, soc. 47.
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Mr. F. P. Pascoe, cat. 1 2.
Miss Payne, through Mr. Mansell-Pleydell, 9.
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Mr. Peach, through Dr. Robert Brown, 109.

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Mr. J. C. Mansell-Pleydell, cat. 9 41.
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Mr. Charles Prentice, cat. 27 33 37.
Rev. T. A. Preston, cat. 7.
Mr. R. J. Price, cor. 48 50.
Miss Pringle, soc. 68.
Dr. R. C. A. Prior. (See Alexander.)
Mr. R. A. Pryor, cor. 11 12 14 20 23 24 25 30 35.
Rev. W. H. Purchas, cat. 25 34 35 36 43 45 46.

Mr. E. J. Quekett, soc. 5 18.

Mr. John Ralfs, cor. 1.
Robert Ranking, soc. 14.
Rev. T. F. Ravenshaw, cor. 4.
Mr. John Ray, soc. 9 18 19 26 29.
G. Reece, soc. 37.
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William Richardson, soc. 68.
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Mr. George Rogers, cor. 6 34 45.
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Mr. F. C. S. Roper, cat. 14.
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Mr. John Sadler, soc. 88.
J. D. Salmon, cor. 12 13 14 17 18 27 28.
Dr. T. Bell Salter, soc. 9 10.
Mr. J. W. Salter, through Mr. Borrer, 9.
Rev. T. Salwey, through Mr. More.
G. W. Sandys, soc. 16 24 34 46 49 50.
Mr. Thomas Sansom, cor. 16 18 21 50 58 59.
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James Seeley, soc. 17.
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Mr. A. Sibbald, soc. 72.
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Edmund Skepper, cor. 19 25 26.
Rev. G. E. Smith, cat. 15 16 58 63.
Mr. H. Ecroyd Smith, soc. 54 58 69 70.
Rev. T. H. Hart Smith, cor. 2.
Dr. Anthony Southby, cat. 5 6 8.
Mr. J. P. Soutter, cor. 66 79.
Rev. W. W. Spicer, cor. 10 11 12 17.
Dr. R. Spruce, soc. 62.
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Henry Tayler, soc. 14 16.
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Rev. J. H. Thompson, cor. 54.
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Miss Elizabeth Twining, cor. 9 10 12 16 18 20 64 72 88 97.
Mr. Thomas Twining, cor. 3 9 15 17 21 33 49 64.
Walter Twynam, cor. 75 82 83.
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Mr. W. C. Unwin, soc. 14. *Cuscuta europæa.*
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Mr. E. G. Varenne, cat. 18 19.
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S. Warner, soc. 13 14 19 20 29 30.
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Mr. J. S. Wesley, cor. 64.
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Mr. W. Winter, soc. 27.
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Rev. E. Wood, cor. 17.
Dr. J. B. Wood, soc. 38.
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Miss Alice Worsley, cat. 88.
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Dr. J. Forbes Young, soc. 6 16.

Notes on the Authorities cited.

The abbreviations "cat. cor. soc." are added to the names of those personal authorities who may be considered as cited directly from manuscripts under some form. Surnames within inverted commas are cited at second-hand, be it from books or from manuscript notes or oral reports by other botanists. Other quotations, whether names of persons or abbreviated book-titles, almost always refer to what is already in print elsewhere. A blank, in place of any authority after a county name, may also be understood to mean that something in print elsewhere warrants the mention of that county.

The abbreviation "cat." will be understood to refer to the *Local Catalogues* of plants received from various correspondents, and explained on preceding pages.—The "cor." will be understood to intend other *Correspondents*, to whom the compiler has been indebted for manuscript notes or labelled specimens sent directly to himself.—The "soc." will distinguish those collectors of specimens, with whom there has been little or no direct communication: but from whom specimens have come indirectly

under inspection, and chiefly through the agency of *Distributing Societies*, that is to say, the Exchange Club or the Botanical Societies of London and Edinburgh.

This triple distinction cannot be made on a hard and positive line, however, since several of the botanists named might readily come under two or even all three of the categories stated. In several instances specimens have come in both modes from the same collector; some of them direct, some of them through a society; Professors Babington and Balfour are instances in point. Yet the distinction is not unimportant, so far as it can be made, as will presently appear; the "sp." being a far more safe and satisfactory evidence towards shewing a locality, when direct from a correspondent himself, than is the "sp." received indirectly through a society. Taken in connexion with the signs of certainty or doubt "! ?" and the three abbreviations used in the county lists "sp. ms. cat." (or their non-use) the cited authorities become distinctively grouped thus:—

1. Seen in the county by the compiler himself.
2. Named in a local catalogue.
3. A msc. note from a correspondent.
4. Specimen from the actual collector.
5. Specimen from a donor, not the collector.
6. Specimen through a distributing society.
7. Some personal authority or book quoted.
8. Authority blank; accepted but not quoted.
9. Authority more or less insufficient. "?"

Besides these, we have the nos. enclosed ( ) or [ ]. The former ( ) in the case of counties accepted as reported or seen, but the genuine indigenous-ness of the plant there held in distrust, more or less positive. The latter [ ] in the case of counties either positively rejected or else decidedly held to require confirmation. On each of the above classes or categories of testimony some further explanatory remarks appear to be desirable.

1. The compiler's *own notes*, including with them the labels of specimens collected by his own hand at any past date, and still preserved in his herbarium. These have gradually accumulated during the long period from 1830 to 1880; and much that was seen during the two score years and over, without being specially noted in writing, has been as gradually fading from recollection. The sign of certainty "!" has thus been used in this work more sparingly than otherwise it might have been given. Indeed, the omission of that sign has been made in some instances, although localities for the plants have been printed elsewhere on the compiler's own testimony. It has not been added to the names of the counties in this work simply because present recollection or manuscript note now fails, although the former book record is still believed to be a true one. On the other hand, his own recollections for Surrey being recent and confident, he has taken little care to confirm them by a second personal authority.

But a new chance of error in the use of the "!" has crept in, which was quite unexpected, and thus not thoroughly guarded against while correcting the proofs, more especially those of the earlier pages. The printing had not proceeded far, before it became too evident that compositors occasionally exchanged these three signs "! . ?" set after the names of counties, placing one instead of the other; at the same time also it was seen that the three abbreviations "sp. ms. cat." were occasionally exchanged one for another.

Substitutions of this kind, if undetected on the proofs, might bring about an utter alteration of statement or falsification of fact. For instance, if "Cornwall?" were set "Cornwall." instead, the doubting query would of course be converted into an undoubting acceptance; and if it were set "Cornwall!" instead, the compiler would be made to express certainty on his own personal testimony, where he had meant to shew questioning uncertainty as to some other person's testimony. So, likewise, if, "Smith sp." were set instead of "Smith ms." the misprint would importantly change the testimony, and would make the

compiler certify the accuracy of the nomenclature, and do so without having seen a specimen of the plant. Although these examples are here given with an "if" as explanatory illustrations, there are unfortunately a few real cases of like kind. Of course, in writing out the names of counties and persons thousands on thousands of times, some similar substitutions of one sign or abbreviation for another might be made inadvertently in the original notes, or in the press manuscript itself equally as in the process for converting it into type or letter-press. Such errors, however, are much more likely to be those of simple omission, than those of commission, so far as the sign of individual certainty is concerned; and no mischief is wrought by leaving it out.

2. The *catalogues* have been amply explained on pages 535, &c. It will be kept in recollection here, that the correct nomenclature of the plants, as well as the certainty of their occurrence in the county, must both rest exclusively with the botanist by whom the catalogue was made. If he should have marked any name therein by guess-work, or on the report of some other botanist or on some record in a book, so far he will have *falsified the personal testimony*. This subject was alluded to in the introductory remarks, and it might seem unnecessary again to revert to it here. And yet some short lists of "Additions" have been received since, in which plants were included although the senders of the lists had truly never seen them in the counties or more special localities stated for them;—so difficult is it to get even well-educated and well-intentioned men to give their evidence correctly, and adhere to logical accuracy in their statements!

3. The *manuscript notes* do not differ essentially from some of the catalogues. One of them may be a special and very careful description of the place where some rare plant has been found. Another may be simply a written list of plants observed within some stated area, perhaps differing from the more general catalogues only by the omission of common plants, or by being

curtailed in some other mode. Between these extremes there is room for a good deal of diversity.

4. The label sent with an *actual specimen* is truly a manuscript note also, although the evidence yielded is rather different; that is, through the receiver getting the option of endorsing the name of the plant, and so accepting on faith its locality only, not both name and place. If specimen and label have come *direct* from the collector to the compiler, the probability of correctness may be held very great. A fairly careful collector seldom mislocalizes a plant; and in case of any difference of view, as to the right name of the plant, some further communication will usually have passed between them, tending to settle the name correctly. But it should be noted here, that "sp." is made to cover other specimens besides those that may remain still within reach; including, not present herbarium specimens only, but also others which have passed through hand for temporary inspection; and the examination may have chanced many years ago in some instances, when the compiler was younger and less practised. At first, it was in thought to distinguish them by using "dp." instead of "sp." in cases where the specimens themselves had not been retained so as to allow re-examination at present dates. This idea was rather reluctantly given up, lest its practical adoption should lead to an increase of misprints.

5. Specimens may have passed through *intermediate hands* between collector and compiler; each such transfer tending to increase the list of errors. Specimens occasionally get mingled; and labels get misplaced to wrong specimens. Some collectors habitually omit to write their own names on their labels; so that the locality soon becomes anonymous, certified by nobody in particular, and an intermediate distributor may then become credited with the locality. In re-writing labels some distributors put only their own names on them, omitting those of the actual collectors; thus virtually making themselves false testifiers to localities never really seen by them. That

particularly stupid form of label, where "*Ex. herb.*" is the printed substitute for correct description, has doubtless led to numerous mis-records. Under the very condensed form of this present work, it was impossible to shew the transfer of a specimen from A to B, and possibly a further transfer of the same from B to C, before the surname on its label came to be quoted here as the authority for a county. Nor would the labels themselves by any means always have afforded the data for doing so, even if space had allowed.

6. Specimens which have passed through the *distributing societies*, must be still more likely to create and spread errors arising from the displacement of labels. When members send more specimens than labels, or labels so inaccurate as to require re-writing, there is constant chance of mis-copying the names of places carelessly written. Such names are often so written by contributors themselves, as to be found utterly illegible to anybody at a distance, and not specially familiar with the names of perhaps very insignificant places. It is not uncommon to see the names so penned that only two or three of their letters can be made out clearly. And it has unfortunately chanced that some of the most active distributors on behalf of the Exchange Club, and also of the Botanical Society of London, were botanists whose writing it was difficult to decipher, especially so with respect to local names; their own labels thus setting bad examples to other contributors.

Another frequent default is that of *omitting the county;* and as the same name applies to two or more places in hundreds of instances, a fertile source of error arises through not adding the county in which the locality is situate. Every botanical work, dealing much with localities, has instances of wide misposition through sameness of names in different counties, or even in different parts of the same county. Such mispositions, however, are usually traceable back to remissness in the first reporters of the localities, and are thus not fairly attributable to after compilers. Even the names of persons get confused and inter-

changed on the re-copied labels of societies, when there are two or more collectors of the same surname contributing specimens to the same society. The Christian name of a contributor is often omitted on re-written or printed labels; and the sex of a contributor is even left to be guessed, as well as professional designation, such as Mr. or Dr. When societies or individuals label their specimens "Ex. herb. Smith" or "Ex. herb. Jones" or "Ex. herb. Wilson," how lucidly do they distinguish between the various botanists, male and female, who have borne those names! The condensed plan of this present work would have shared the same defect, if the county lists had been printed without the general list of Authorities or the explanations of the Catalogues, as necessary adjuncts thereto. And it is scarcely to be expected that no mistakes have been made in taking personal names from the imperfect or half-legible labels of collectors and re-distributors.

7. Although it was made a general rule *not to quote printed books*, on grounds already shewn and also to avoid citing personal authorities at second-hand, yet practically these have been rules observed only with a good many exceptions. The inducements to the several exceptions are mostly obvious enough, and are in some instances directly pointed out; as in the instances of *Berberis* and *Viola odorata*, where it was sought to shew also the opinions of various botanists on the question of nativity or otherwise. The *Callitriche autumnalis*, on page 170, affords a different example. Two counties on the list were recently ascertained habitats, considerably altering the area and limits of the species, as set forth in the *Cybele Britannica* and its *Compendium* of 1868. The finders of that plant had not themselves communicated any information about it before the manuscript was sent to the printing office, but a notice of their discoveries had actually come to hand through other correspondents. Accordingly "Parfitt sp." and "Warren" were given at second-hand, as the personal authorities reported for the plant in the two counties named. So, again, it

will certainly not lessen the usefulness of *Topographical Botany*, to find the abbreviated quotation "Eng. Bot. 3" or "E.B. ed. 3' coming in rather frequently, although space allowed not the addition of volume and page to the title of the work. Such occasional exceptions, indeed, well serve to illustrate what was said on this subject in the introduction.

8. Under the rule mentioned very many names of counties stand *in blank*, that is, uncertified by any cited authority; although the writer's private notes do refer to an authority in all those instances. With few exceptions there are already recorded in print elsewhere sufficient personal authorities for the counties named in blank, and not questioned by the sign of distrust or uncertainty "?" In some very few instances a manuscript authority only has come under cognizance, although under such form or condition as not to admit of personal quotation.

At one time there was a project for starting altogether *de novo*, limiting the counties for nominal enumeration strictly to those for which a present or recent personal authority could be adduced, and without adding thereto the name of a single county on faith of the records in books alone. Completeness would thus have been sacrificed for the sake of increased accuracy. But the plan of affixing the query "?" to the less certain counties, and weeding out those least to be trusted, by enclosing their nos. [ ] and omitting their names from the enumerating lists, will really go far towards making the unvouched equally reliable as those vouched by a personal authority. Doubtless there will still be a per centage of errors in either case, although it be only a fraction per centum; for it is not anticipated that the errors left in will amount to so much as an entire unit per cent. On the contrary, too, a small per centage of the rejected counties may turn out to have been correct, although recorded an authorities which at present are held to require confirmation before final acceptance.

It is to be kept in recollection that there are too widely

different grounds for rejecting the reports or records of botanical collectors. The first and most frequent is want of confidence in their botanical discrimination, chiefly in regard to the so-called "critical" species. The other and less frequent is a want of confidence in their moral good faith.

The instances are very few, apparently, in which botanists have deliberately sown plants in order to discover them afterwards, or have resorted to any direct deceptions otherwise; but the instances of indirect or careless deceptions are unfortunately not few in number, and are various in kind. For instance, the frequent suppression of circumstances which would tell against the nativity of plants in places where found; also the careless trick of labelling specimens as if really picked in certain localities, where the same species is supposed to grow, although the labelled specimens were not themselves picked there.

In the General list of Contributors the names are followed by the nos. of the counties with which they were connected as simple surnames. This will serve to identify and distinguish the personal authorities. But only few of the names which are quoted within inverted commas or at second-hand from books, have been included in the General List; that list being intended to shew and explain the *personal* authorities, as taken from *manuscript* papers or labels in the compiler's own possession, not book authorities equally open to all enquirers.

WORKS ON TOPOGRAPHICAL BOTANY.

Abbot. Flora Bedfordiensis. 1798.

Ainsworth and Cheek. Edinburgh Journal. 1830.

Anderson. Description of a New Rubus, etc.

Babington, C. C. Flora Bathoniensis. 1834 and 1839.
Flora of Cambridge. 1860.
Botany of South Pembrokeshire. 1863.
Rubi Britannici. 1869.
Manual of British Botany. Editions 1—8.
List of Plants observed near Cromer in 1875-6.

Babington, Churchill. (See Bloxam.)

Backhouse. Monograph of the British Hieracia. 1856.

Baines. Flora of Yorkshire. 1840.

Baker. Supplement to Flora of Yorkshire. 1854.
North Yorkshire; its Botany, etc. 1863.
Review of the British Roses. 1864.
Monograph of the British Roses. (Reprint.)

Baker & Tate. New Flora of Northd. and Durham. 1868.

Balfour & Babington. Vegetation of Outer Hebrides. 1841.

Balfour & Sadler. Flora of Edinburgh. 1863.

Baxter. British Flowering Plants. 1834, vol. 1st.

Beesley. Botany of Banbury. 1841.

Bentham. Handbook of the British Flora. 1858.

Bloxam & Babington. Botany of Charnwood Forest. 1842.

Boswell. See Syme.

Brewer. New Flora of Reigate. 1856.

Briggs. Flora of Plymouth. 1880.

Britten. Flora of Buckinghamshire. 1867.

Britten. Contributions to a Flora of Berks. 1871.
List of Lincolnshire Plants. 1872.
Bromfield. Flora Vectensis. 1856.
Buckman. Botanical Guide to Cheltenham. 1844.
Buxton. Botanical Guide to Manchester. 1849.

Clark. Rarer Plants of the Turf Moors, Somerset. 1856.
Clarke, C. B. List of Andover Plants. 1866.
Cooper, D. Flora Metropolitana. 1837.
Cooper, T. H. Botany of Sussex. 1834.
Cowell. Floral Guide for East Kent. 1839.
Croall. Catalogue of Stirling Plants in 1875: Report of Botanical Record Club.

Davies. Welsh Botanology. 1813.
Deering. Catalogus Stirpium, &c. (Nottingham). 1738.
Dickie. Flora Abredonensis. 1838.
Botanist's Guide to Aber. Banff. & Kinc. 1860.
Dickinson. Flora of Liverpool. 1851.
Dillenius. Raii Synopsis, editio tertia. 1724.

Edmonston. Flora of Shetland. 1845.

Falconer. Flora of Tenby. Date ? (Copy mislaid.)
Flower. Flora of Wilts. Serial nos.
Flora Thanetensis. 1847.
Forster. Flora Tonbrigensis. 1810.
Francis. Analysis of the British Ferns. 1837, 1842.

Gardiner. Flora of Forfarshire. 1848.
Garner. Natural History of Stafford. 1844.
Gibson, G. S. Flora of Essex. 1862.
Gissing. Ferns of Wakefield. 1862.
Flora of Wakefield. 1867.
Gordon. Collectanea for a Flora of Moray. 1839.

Graham. Botanical Excursions. Various Reports.
Greville. Flora Edinensis. 1824.
Gulliver. Catalogue of Banbury Plants. 1841.

Hall. Flora of Liverpool. 1838.
Hannaford. Flora Tottoniensis. 1851.
Hastings. Natural History of Worcestershire. 1834.
Henfrey. Botanical Gazette. 1849–1851.
Hennedy. Clydesdale Flora. Second edition in 1869.
Henslow. Catalogues. Cambridgeshire & Hitcham.
Henslow & Skepper. Flora of Suffolk. 1860.
Hiern. Batrachium section of Ranunculus. 1871.
Hogg. Natural History of Stockton on Tees. 1827.
Hillhouse. List of Plants seen in Bedfordshire. 1875.
Hooker, J. D. The Student's Flora of British Islands. 1870.
Second edition. 1878.
Hooker, W. J. Flora Scotica. 1821.
British Flora. Various editions. 1830–1842.
Journal of Botany. Various titles. 1830–1851.
Hooker & Arnott. British Flora. Editions 6–8. 1850–1860.
Hooker & Others. Supplement to English Botany.
Hopkirk. Flora Glottiana. 1813.
Howitt. The Nottinghamshire Flora. 1839.
Hudson. Flora Anglica. 1762 & 1798.

Jacob. Plantæ Favershamienses. 1777.
Jardine. Magazine of Zoology and Botany. 1837–8.
Jones, J. P. Botanical Tour in Devon and Cornwall. 1821.
Johnston. Flora of Berwick on Tweed. 1829–31.
Nat. Hist. of Eastern Borders. 1853.

Keys. Flora of Devon and Cornwall. 1866–70.
Kingston & Jones. Flora Devoniensis. 1829.
Kirby. Flora of Leicestershire. 1850.

Landsborough. Botany of Ayrshire. 1872.
Lees, E. Botany of Malvern. 1868. (1843.)
Lees, Dr. F. A. Annual Reports of the Botanical Locality Record Club. 1873–1881.
Leighton. Flora of Shropshire. 1841.
Ley. Catalogues in the Reports of Botanical Record Club for Brecon, Radnor, and Merioneth.
Lightfoot. Flora Scotica. 1777.
Linton. Catalogue of Plants of West Lancashire. Bot. Soc. Record Club. 1874.
Loudon. Magazine of Natural History. 1829–36.
Luxford. Flora of Reigate. 1838.

Mansell-Pleydell. Flora of Dorsetshire. 1874.
Martyn. Plantæ Cantabrigienses. 1763.
Melvill. Flora of Harrow. 1864.
Miall & Carrington. Flora of the West Riding. 1862.
Milne & Gordon. Indigenous Botany. 1793.
More. Catalogue of Plants in Isle of Wight. 1858.
Supplement to Flora Vectensis. 1871.
Morton. Natural History of Northamptonshire. 1712.
Munford. Flowering Plants in Western Norfolk. 1841.
Botanical Productions of Norfolk. 1864.
Murray. The Northern Flora. 1836.

Newman. The Phytologist. 1842–1856.
History of British Ferns. 1840, 1844, 1854.

Paget. Natural History of Yarmouth. 1834.
Patrick. Indigenous Plants of Lanarkshire. 1831.
Perry. Plantæ Varvicenses Selectæ. 1820.
Preston. Flora of Marlborough. 1863. Ed. 2, 1867 — ?
Purchas. Flora of Herefordshire. 1866.
Purton. The Midland Flora. 1817–21.

Ravenshaw. Botany of North Devon.
Flowering Plants and Ferns of Devon. 1860.
Ray. Syn. Method. Stirp. Brit. ed. 2. 1696.
Relhan. Flora Cantabrigiensis. 1785 and 1820.
Roper. Flora of Eastbourne. 1875 and Supplements.
Ross. Catalogue of Plants of Mull and West Ross, in Report of Locality Record Club.

Salmon & Brewer. Flora of Surrey. 1863.
Salter. Botany of Poole. 1839.
Seeman. Journal of Botany. 1863–70.
Sibthorp. Flora Oxoniensis. 1794.
Smith, J. E. Flora Britannica. 1800–4.
English Flora. 1824–8.
Smith, G. E. Phænogamous Plants of South Kent. 1829.
Stewart. Handbook of the Torquay Flora. 1860.
Swete. Flora Bristoliensis. 1854.
Syme. English Botany. Edition 3. 1863–1872.

Thompson. Plants of Berwick-upon-Tweed. 1807.
Trimen & Dyer. Flora of Middlesex. 1869.
Trimmer. Flora of Norfolk. 1866.
Turner & Dillwyn. The Botanist's Guide. 1805.

Walker. Flora of Oxfordshire, etc. 1833.
Warner. Plantæ Woodfordienses. 1771.
Warren. Flora of Hyde Park, etc. 1871. (Reprint.)
Watson, H. C. Outlines of Geog. Dist. of British Plants. 1832.
Remarks on Geog. Dist. of B. Plants. 1835.
The New Botanist's Guide. 1835, 1837.
Cybele Britannica, four vols. 1847-1859.
Supplement to Cybele Britannica. 1860.
Compendium of Cybele Britannica. 1868–70.
Supplement to Compendium of C. B. 1872.
Webb, F. M. Flora of Liverpool. 1867–8. Incomplete.

Webb, R. H. & Coleman. Flora Hertfordiensis. 1849.
Webb, R, H. Two Supplements to Flora Hertf. 1851, 1859.
Williams. Faunula Grustensis. 1830.
Winch. Flora of Northumberland & Durham. 1831.
Contributions to the Flora of Cumberland. 1833.
Geog. Dist. of Plants through N. C. D. 1825.
Withering. Arrangement of British Plants. Ed. var.
Wood. Flora Mancuniensis. 1840.
Woodforde. Catalogue of Phænogamic Plants in the vicinity of Edinburgh. 1824.

The above list is not to be received as an exhaustive one for works which treat on topographical botany in this country. It includes those only which stand on my own bookshelves, and have been used more or less in writing this present and other antecedent books. Two local Floras are left out simply because copies do not chance to be on those shelves, namely, for Sidmouth and Tonbridge; possibly there may be others wholly unknown to me, although deserving of notice; certainly there are other books intentionally ignored, as including a dangerously large admixture of error amid what is sound. Some little of British topographical botany, mostly good as far as it goes, is to be found scattered in the Annals of Natural History, under various Editors; and even in the Linnean Transactions. Only very imperfect sets of these two serials are in possession.

A few old writers have been named in the above list, such as Ray and Dillenius, because some very few counties still rest on their original records, repeated by more recent writers seemingly without having been verified afresh. Throughout my own topographico-botanical writings, and more especially in this present work, the leading object has been to shew the botany of Britain as it actually exists, or did very recently exist, in living reality on the ground. But no single botanist ever sees more than a portion of the surface of the ground and its floral covering. And if his writings are required to cover all,—at any rate,

approximately all,—that has been ascertained respecting the areal and more local distribution of each and every plant, he must needs accept on trust the greater portion of what has to be included; that is, he must learn it through the eyes of other botanists, accepting on faith what they may report to him individually, or may have put into the form of printed records for general use.

During the present century, and increasingly during the last thirty or forty years, the facilities for acquiring a knowledge of individual plants as species, and the facilities for visiting their actual localities, both have been vastly augmented. The general result is, not only very numerous additions to our stores of knowledge, but also an increased accuracy in the records of its details; the per-centage of error becomes less and less, as we get nearer to our own times, and nearer to the actual present time. The farther we go back, and the more we depend solely on old book records, or old labels and specimens, the larger will be the per-centage of error. To a great extent, that which was true and accurate a century or two ago will have been subsequently verified or confirmed afresh; leaving a balance of old records unconfirmed, which are gradually coming to consist chiefly of errors. The state of the case may be summarized thus:—

1. Old records, more recently confirmed afresh.
2. Old records, not more recently confirmed:
   - A. Accurate at their date.
   - B. Inaccurate at their date.

Suppose that we allow only five per cent. of inaccuracies to the old records of the pre-Linnean times. This would be a small per-centage, because we must let that per-centage cover errors of place as well as of plant, and also subsequent errors in translating the old name-descriptions into Linnean binomials. Take a thousand old records, which will thus give us fifty inaccuracies of one kind or other. Say, that nine hundred of the old records have been subsequently confirmed afresh. There will remain

one hundred of such records still unconfirmed; and of these *one-half will be errors.*

It is this tendency in the residue to become more and more a mere mass of inaccuracies and uncertainties, which renders it so little desirable to go on repeating them as facts, and so much more desirable to rely upon recent records, or still more recent unpublished observations; in which the per-centage of errors is likely to be a mere fraction, as against the increasingly large per-centage certain to occur in the residue of the old records.

But supposing the object of a botanical writer to be almost entirely different; not to be that of ascertaining the present areas and localities of plants, with the view, *inter alia*, of comparing one county with another, or contrasting one against all; but rather to trace out the history of certain plants within any given county, the length of time they have been known or believed to grow there, and whether more or less plentifully, etc. —then of course it is found needful to trace back to the oldest records, and to connect them as accurately as may be with what is now seen. The local history of plants has an interest of its own quite apart from larger views; and it has also some bearing on present areas of distribution. But *actual distribution*, not history, is the main object of this present work; and to this end the best evidence is found in what we see with our own eyes; that which we accept on trust because we find it printed in old books, is evidence of a very inferior kind;—the former is real knowledge, the latter is now at best only a belief.

Unfortunately, there is a dangerous drawback to the modern superiority contended for, and indisputable in the main. Along with the increase in facilities for acquiring an accurate knowledge of plants, there has been a large increase also in the facilities afforded for inexperienced and superficial botanists prematurely to rush into print, and to add their own blunders to swell the accumulating stores, still descending for the perplexity and vexation of our successors. The journals, the reports of provincial societies, the local floras, each and all help in this

wise to disseminate and perpetuate errors, through the facilities they offer to youthful inexperience and adult incompetence.

Although much offence has been given to some of my own friendly and well-meaning correspondents, by refusals to accept several of their reported localities, it may still be feared that this present and other connected works will be found in turn to have added to the stock of errors on record. If all that has come to my hands in form of manuscript lists and notes, including labels with specimens, had been accepted on trust as sent, the erroneous records so introduced into my books would have counted up to hundreds, perhaps even to thousands. Truly, many errors have been intercepted and sifted out; but in turn I may also have erred in instances, and without any one to intercept or correct my own errors.

Amid all the Local Floras enumerated in the preceding list, it may be doubted whether there is any one of them which has failed to add something fresh to the accumulated mass of error, over and above the repetition of errors copied from their predecessors. And yet, if any book should be expected to come out free from errors of plant and place, surely a Local Flora is exactly the one which ought to do so! Treating of a reduced number of plants only, and treating of their localities in a very restricted area, which ought to have been carefully and thoroughly examined before a botanist presumed to publish its Flora,—where is the cause, where is the excuse, for new errors to be found?

The cause may be more easy to find than the excuse. In several of them, the primary cause of error (with prevailing badness of plan) is found in the youthful inexperience or in the very superficial botanical knowledge of their Authors. In other instances, where the Author was himself competent to the duty, he may have really delegated part of it to others who were much less so; that is, he may have accepted reports of localities from contributors unprepared to name the plants seen in a correct manner, or (too frequent fault!) unfaithful in their statements as

to wildness, &c. In most of our Local Floras there is a discreditably large portion of the recorded localities, even disputable localities, which have never been examined by the writers of the Floras. Why should a botanist deem himself qualified to write the Flora of a whole county because he has examined half a dozen of its parishes?

Perhaps the unpretending *Flora of Reigate*, by the late George Luxford, is the one which ought to stand at the head of all, when the test of superiority is made to rest on real research and reliability. There appears no reason to question the truth of his own account of his book, as given in these words:—"I have endeavoured to render the work a guide to the localities of the plants growing in the localities of which it treats; and the only merit it can claim is that of being a faithful record of my own researches in the neighbourhood of Reigate. So that however trifling it may be considered in a scientific point of view, I trust a certain value will attach to it, as being,—not a mere compilation from the labours of others,—but *the result of actual observation*. I believe I have not admitted a single plant which I have not seen growing in the recorded localities, with the exception of the very few collected by friends of undoubted veracity, whose names are invariably given as authorities. I possess specimens of all the plants so collected; and have, whenever it was practicable, verified the observations of my friends."

The internal evidence afforded by the book itself appears fully to accord with and warrant Mr. Luxford's own description of the work. And it is noteworthy that most of the few (really few) exceptions alluded to, are plants which ought not to have been admitted into the work at all. How gladly would I have burnt every other Local Flora in the list—good, as some of them are, after their own fashion,—if their places could have been supplied by as many others written on the same faithfully simple plan as this *Flora of Reigate*. Perhaps the nearest resemblance to it may be found in the checked *Catalogues* so much quoted in the county lists of this work. But these catalogues cannot be declared

equally reliable as a specially printed list should be. The chances for inadvertently marking a wrong name, while checking the names in a printed general list, or of entering a wrong name while writing out a local list of plant-names, must be at least appreciable, and in some cases even considerable; and there is no check or test against such inadvertencies, except that they will have been afterwards subjected also to the receiver's scrutiny and scepticism. In a printed Flora, it may be assumed, the list of plants or names will have passed repeatedly under the writer's eyes and ideas; leaving small chance for mere inadvertencies, as distinct from errors arising through inadequate knowledge.

But if the *Local Floras*, books in which accuracy might more especially be expected, often add their quotas to the store of false records, what else can be expected from the *Reports of Provincial Societies;* so many of whose members must be comparatively quite novices in science. It is only to those reports from provincial societies, which have regularly passed under the supervision of some competent and responsible botanist, that trustful credence can be given. There may be much that is useful and correct in them; the objection lies in the mingled errors too often allowed to find entrance. Fortunately, most of those reports remain merely local; being seldom copied from into the more general works. If they do become the means of giving wider currency and more permanent record to some errors, it is mostly effected through being recognized and re-copied in the periodical journals.

The editors of Natural History journals, in any department, have a somewhat difficult task to perform. It is slow suicide to let their journals sink into the low grade of becoming repertories of blunders; and yet they are compelled to admit much that is worthless, if not positively erroneous, to please their contributory subscribers. On the rule of propitiating subscribers, what a host of blunders did Loudon's Magazine of Natural History bring into permanent record! At a later date something of like kind,

combined with editorial unfitness, made the second series of the Phytologist a journal beneath quotation, and brought it to dissolution.

Better is it,—over and over again I would repeat,—far better is it to overlook and ignore a hundred alleged facts, if only five or ten of them are likely to be bad, to be false and misleading, although the other ninety may perchance be sound and valuable. If the vitiating grains cannot be winnowed out, must remain for a time undistinguishable, let the whole be rejected. The Author of a Local Flora, the reporting Secretary of a Provincial Society, the Editor of a fact-recording Journal, who allows his work to be adulterated by the errors of incompetent contributors, is so far giving the stamp of his own authority to what is worse than valueless.

Let us look back to the starting ground of modern compilations; back only to the date of the original *Botanist's Guide* in 1805. To how many false records did Turner and Dillwyn give a currency and importance which have compelled subsequent compilers to repeat them, either actually accepted on faith or only doubtfully queried; and so repeated, simply because they had been allowed printed place unquestioned on the pages of that celebrated Guide, the base coins there made current along with the truer metal.

In the original *Botanist's Guide*, a work dated early in the present century, we find abundant evidence to shew the uninquiring manner in which the localities of plants were accepted for record, even down to that comparatively modern date. In the *New Guide*, of thirty years later, this was illustrated by the frequent use of the signs " ? * † " affixed to the names of plants; indicating its Compiler's doubts as to the existence of the plant in the county at all, or as to its real wildness there. A large proportion of those marked with the sign of incredulity (?) in the second Guide, were simply repetitions from the earlier Guide.

A false record, whether of plant or place, once made current

in a work of botanical authority, cannot well be wholly ignored in succeeding works of like kind, although it may be questioned there. In topographical botany, where the alleged facts accumulate upon us by tens of thousands, no cautious vigilance or even sceptical scrutiny will suffice for entirely weeding out the false; but a too easy acceptance may greatly increase the mischief.

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And also to the Species of the large Genera.

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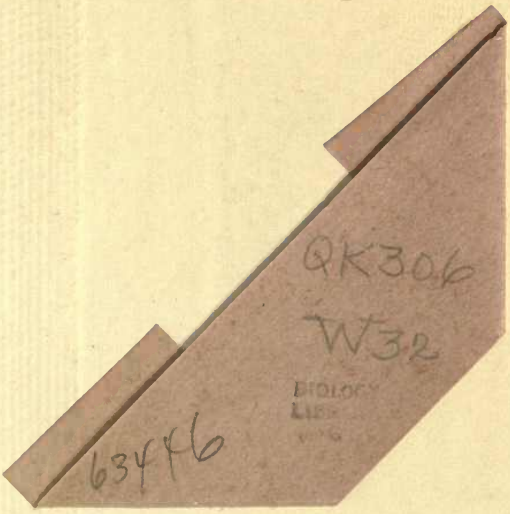
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